

Security Systems

EN

Operation and Installation Guide Programming Software



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1.1 Manual Organization

This manual is divided into six sections. A summary of each section and appendix is detailed in the table below.

Table 1:	D6200 Operation and Installation Guide Manual Organization
Section	Description
1	Introduction - this section
2	Overview - an overview of the D6200 Programming Software
3	Installation - installation the D6200 Programming Software
4	Operation - operation of the D6200 Programming Software
5	Firmware Upgrade Procedure - how to automatically upgrade the receiver firmware files
6	Troubleshooting - uninstalling the software, manually upgrading the receiver firmware files, manually configuring the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680) through Telnet, IP assigning and Pinging

1.2 Referenced Documentation

Throughout this manual, references will be made to other documentation. See the following table for a more complete and detailed description of the D6200 Programming Software.

This table lists the complete part number for ordering purposes.

Table 2: Referenced Documentation						
Document Name	Part Number					
D6600 Program Entry Guide	4998122702					
C900TTL-E Installation Guide	4998122718					
D9133TTL-E Installation Guide	4998122717					
DX4020 Installation Guide	49522					
D6680 Network Adapter Installation Guide	4998138732					
D6600 Computer Interface Manual	4998122703					

1.3 Documentation Conventions

To help identify important items in the text, the following type styles are used:

Bold text	Usually indicates selections that you may use while programming your control panel. May also indicate an important fact that you should note.
Bold Italicized text	Denotes notes, cautions and/or warnings.
Italicized text	Refers you to a drawing, table, or other section of this document, or to another document. Also used to symbolize names for records that you will create.
Courier New Text	Indicates what may appear on the programmer display, command center/keypad, or internal printer.
	Also used to indicate what the user should type.
[CAPITALIZED TEXT]	Indicates a specific key to be pressed.
File→New	This is used to describe the path in getting to a specific sub-menu or command in a Windows-based application.
	Example:select File→New

to create a new...

1.4 Attention Icons

The following attention icons are to be used to denote and emphasis text.

These caution the operator that physical damage to the program and/or equipment may occur. This is to be used when there is a risk of physical damage to the operator (injury) or equipment (as in damage to physical components).
This is for Important Notes that should be heeded for successful operation and programming.
These warn the operator that physical damage to the program and/or equipment may occur. This is to be used when there is an increased risk of physical damage to the operator (severe injury or death) or

2.0 Overview

The D6200 is a PC-based application for Microsoft[®] Windows[®] 95, Windows 98, Windows 98 Second Edition, Windows Me, Windows NT, Windows 2000 and Windows XP that allows the user to view, change, upload and download all of the D6600's programming parameters via a network OR the receiver's and the host's serial COM ports. Through the D6200 software the user can edit CPU and line card parameters, view the status of all accounts in the databases, add/edit/delete accounts, and configure network operations.

Figure 1:	D6200	Program	ming So	ftware n	nain scre	en					
	Administration	g ramming So TeleCom Nel D 🔁 🛛 🕮	f tware (Curr :Com System	ent Operato Management	r:6200) Language	Help L					
								1	2 3 5 5 8 9 0 🔺	A B C D E F M/E CAN	
	1 0 2 0 3 0 4 0 0L/LF	1 0 2 0 3 0 4 0 0L/LF	1 0 2 0 3 0 4 0 0L/LF	1 2 2 3 4 0 0 1/LF	1 0 2 0 3 0 4 0 0L/LF	1 0 2 0 3 0 4 0 0L/LF	1 () 2 () 3 () 4 () 0L/LF	1 0 2 0 3 0 4 0 0L/LF	•	POWER SYSTEM TROUBLE ACKNOWLEDGE	
	Welcome to the I	D6200 Program	ming Software		Local	PC: COM1 8N	1 38400				

The D6600 programming is loaded from four different files:

- CPU/Host/Network Configuration File
- Line Card Configuration File
- NetCom Account Database File
- DNIS Account Database File OR Caller ID Database File

These four files can be modified, uploaded or downloaded separately.



The version numbers used in the screen shots throughout this manual are for demonstration only. They may differ from the software version numbers you have.

3.0 Installation



In a network configuration, both the D6200 and the D6202 need to either be ran one at a time or on separate PCs. The software applications can't share the same IP address while running simultaneously.

3.1 Installing the D6200 software

Follow these steps to install the D6200 Software on the Host PC.

 \mathbf{N}

The different databases (NetCom Account, DNIS and Caller ID) and configurations (CPU, Line and Network) should be saved and backed up after installing the new D6200. These files must then be loaded back into the D6600.

 Insert the D6600 Communications Receiver/ Gateway CD-ROM into the host computer's CD-ROM drive.

🖳 My Computer	
File Edit View Favorites Tools He	elp 🔠
+·→·E QE 3 E 5	🗡 🕼 📰 🔹 🖂 🖂 🖂 🖓 Go
Links 🗋 Google Groups 🗋 Personal 📋	Search Engines 📋 ZD Net 🛛 👋
314 Floppy (A:)	₽Vol1 on Mfg (M:)
🛃 Zip 250 (B:)	🖵 Data on 'Polaris' (N:)
📾 Local Disk (C:)	I Radx big boy archive on Mfg\Vol1\Tv
D6600_v1_04 (E:)	🖵 Data on 'Polaris' (P:)
🗟 Compact Disc (F:)	🖵 U1 on 'Terminus' (T:)
📾 Local Disk (G:)	🖵 Gdavis on 'Terminus\U1\Home' (U:)
Global on 'Avatar\Vol1' (H:)	🐙 Vol1 on Engr' (Y:)
I Vol1 on 'Intrepid' (I:)	Public on 'Engr\Sys' (Z:)
Marketing on Intrepid/Vol1\Data' (J:)	Control Panel
Elb on 'Terminus' (L:)	
•	
Free Space: O butes, Capacity, 16 9 MP	Mu Computer

Double-click on the My Computer icon or start Windows Explorer then double-click on the letter of your CD-ROM to view the CD-ROM files.



2. Open the D6200 Programmer folder on the CD-ROM.

3. Double click the D6200 icon to begin the installation process.



4. Follow the installation instruction prompts given by the computer to complete installation of the D6200 programming software.

D6200-Install Shield Wizard	×
	Welcome to the InstallShield Wizard for D6200 The Install Direct Wegard(TM) will help install D6200 on your computer. To continue, click Next.
	< Back Cancel

4.0 Operation

4.1 Password protection

The D6200 Programming Software is password protected. To log in, the user must enter the correct User ID and Password upon opening the D6200 software. Only one user can be logged on at all times. To log off, select Administration \rightarrow Log Off.

A window will pop up prompting the user for the correct User ID and Password necessary to log on again.

Password Check	
Enter user ID:	
Enter password:	
<u>0</u> K	Close



The default User ID and Password is 6200, which has access to ALL security levels and features. It is highly recommended that the default User Password be changed to something other than 6200. The D6200 passwords do not correspond with the D6600 user passwords.

The maximum allowable password is eight hexadecimal characters (0 through 9, A through F).

4.2 Connection settings

The connection settings allows for the configuration of communication parameters for the D6200 to communicate with network devices (C900TTL-E, D9133TTL-E, DX4020 or D6680) and D6600 Receivers.

To set the D6200 connection settings, select Administration \rightarrow Connection Settings



4.2.1 RS-232 Connection



Section 6.1.5 in the receiver must be disabled (set to 0) to communicate using the COM4 RS-232 direct connect.

To set the connection for RS-232 direct connect, do the following:

- 1. Select RS-232 comport connection from Connection Mode selections
- 2. For Local PC RS-232 comport settings, set the following
 - COM port select COM1 to COM8
 - Data bit select 8 bits
 - Parity check select None, Odd or Even
 - Stop bits select 1 bit or 2 bits
 - Baud Rate Speed default is at 38,400 bps.

Figure 2: D6200 RS-232 Connection Settings



4.2.2 Network Connection



To set the connection for TCP/IP connect, do the following:

1. Select TCP/IP network connection from Connection Mode selections.



2. Click the setup button.

.0			
	13	Lą.	b _e

3. Click the add button.

Figure 5: D6200 Network Connection Parameters
Receiver Connection Setup
Pacehar Name: Receiver Port Receiver Port Local IP Address: Receiver Port Local Port Finable encryption in TCPAP communication; Key String(0.9.4.F.32 chars)
Image: State in the state i

- 4. Receiver Name: Enter a receiver name. This name can be used as a cross reference to the IP address that is assigned to the receiver (e.g., D6680).
- 5. Receiver IP Address: The IP address of the D6680 you wish to communicate with.
- 6. Receiver Port and Local Port: The port number of the network device you wish to communicate with.
- 7. The local IP address: Shows the IP address of the PC.

- Encryption Option: Check the Enable encryption in TCP/IP Communication box if you will be communicating to a network device with encryption enabled. See the appropriate installation guide for the network device being used for more information. The Encryption Key String must match the key string that is programmed into the D6680. Default value is 01-02-03-04-05-06-07-08-09-10-11-12-13-14-15-16

If the PC running the D6200 software is connected to a NNC network, there is a possibility that the server could change the IP address. If this happens, the D6200 software will no longer be able to communicate with the Receiver until the Receiver is programmed with the new IP address that was assigned to the PC. To avoid this, it is recommended that a static IP address be used for the PC running the D6200 software.

The Encryption key string must be the same for all devices (D6680, D6600, D9133TTL-E, DX4020, C900TTL-E, D6202, and D6200). Programming the devices in the following order will ease setup:

- 1. D6202 (Automation if used)
- 2. D6680
- 3. D6600
- 4. D9133TTL-E, DX4020, and C900TTL-E
- 5. D6200 (last)

4.2.3 Password Protection

The D6200 Programming Software is password protected. To log in, the user must enter the correct User ID and Password upon opening the D6200 software. Only one user can be logged on at a time. To log off, select Administration \rightarrow Log Off. A window pops up prompting the user for the correct User ID and Password necessary to log on again.

The default User ID is "6200". The default Password is "6200". The D6200 passwords do not correspond with the D6600 passwords.

This has access to all security levels and features. It is highly recommended that the default User Password be changed to something other than "6200".

The D6600 offers several passwords for multiple users. Each level has certain restrictions (see *Table 3*).

A maximum of eight alphanumeric characters (0 to 9, A to F) can be used to create valid passwords. Default passwords can be customized using the D6200 software.

Table 3:	Password Levels and Restrictions				
Level #	Level Name	Description	Access		
1	Manager (1 user)	The manager has full programming control and access to all menu features. The manager may change any other passwords.	Alarm Database CPU Configuration Line Cards Configuration Host Programming Software Versions Network Configuration Account Database Configuration Registered Accounts		
2	Supervisor (3 users)	The supervisor has full programming control and access to all menu features. The supervisor may also change any password except the manager's.	Alarm Database CPU Configuration Line Cards Configuration Host Programming Software Versions Network Configuration Account Database Configuration Registered Accounts		
3	Operator (6 users)	The operator has restricted programming control and access to some menu features. The operator may not change any passwords	Alarm Database Software Versions Registered Accounts		

4.3 D6600 Settings

The D6600 can be set to communicate directly (RS232) or over a network.

4.3.1 RS-232 connection

If the D6600 is directly connected to the Host PC, the receiver must be configured for a direct connection. To do this, follow the procedures below:

1. Navigate to 4 Host Programming and press [M/E].

4 Host Programming

2. At the 4.5 Parameter display, press [M/E] to enter the menu.

4.5 Parameter

3. At the 4.5.7 RS232 Software Programming Enable display, press [M/E] only if you are going to perform a firmware upgrade.

4.5.7 RS232 Software Programming Enable

4. Press [0] to disable software programming enable and [1] to enable software programming enable.

Current setting [0] New Value [0..1]: <u>1</u>

5. Press [M/E] to enter the menu.

6. At the 4.5.9 RS232 Direct Access Permission display, press [M/E].

4.5.9 RS232 Direct Access Permission

This allows communication between the D6200 software and the receiver through the RS232 direct connection.

 Press [0] to disable Direct Access Permission and [1] to enable Direct Access Permission.

Current	setting [0]	
New Val	ue [01]: <u>1</u>	

8. Press [M/E] to enter the menu.

9. Press [CAN] three times to exit out to the current time and date display.

04/06/2004 14:25:00

New settings take effect once you exit out to the time and date.

4.3.2 Network connection

If the D6600 is connected to the Host PC through a network connection, the receiver must be configured for network communication. To do this, follow the procedures below:

Navigate to 6 NETWORK CONFIGURATION

 → 6.4 D6200 Network Connection → 6.4.5
 Network Programmable Enable

6.4.5 Network Programming Enable Current Setting [1]

2. Press [M/E] to enter the menu.

3. Press [0] to disable communication and [1] to enable communication.

Current settin9 [0] New Value [0..1]: <u>1</u>

4. Press [M/E] to enter the menu.

5. The new value shows in the menu selection.

6.4.5 Network Programming Enable Current Setting [1]

6. Press [CAN] three times to exit out to the current time and date display.

04/06/2004 14:25:00

New settings take effect once you exit out to the time and date.

4.4 D6200 Icon Bar

- 1 Open/Manage CPU Configuration From File see Section 4.6.1 CPU Configuration, Opening the configuration file.
- 2 Read/Manage CPU Configuration From Receiver see Section 4.6.1 CPU Configuration, Reading the configuration file.
- 3 Open/Manage Line Configuration From File see Section 4.6.2 Line Card Configuration, Opening the configuration file.
- 4 Read/Manage Line Configuration From Receiver see Section 4.6.2 Line Card Configuration, Reading the configuration file..
- 5 Open/Manage Network Configuration From File see Section 4.7.1 Network Configuration, Opening the configuration file.
- 6- Read/Manage Network Configuration From Receiver – see Section 4.7.1 Network Configuration, Opening the configuration file.

4.5 D6200 Administration

- 7 Open/Manage NetCom Account Database Configuration From File – see Section 4.8.3 NetCom Accounts, Opening the database file.
- 8 Read/Manage NetCom Account Database Configuration From Receiver – see Section
 4.8.3 NetCom Accounts, Reading the database from the receiver.
- 9 Show Account Status see Section 4.9.1 Show Accout Status.
- 10. Connection Settings see Section 4.2 Connection settings.
- 11. Software Upgrade Wizard see Section 4.11.1 One Button Upgrade Wizard.
- 12. About Shows the Information dialog box for the D6200 software with the version number.
- 13. Log off Logs off the current user and brings up the User/Password Dialog. see Section 4.2.3 Password Protection.
- 14. Exit Exits the D6200 Programming Software.

4.5.1 User Management

User Names, Passwords, and Access Rights can be added, edited, or deleted.

1. Select Administration \rightarrow User Management.

2. A window pops up prompting the user to enter the correct user ID and password. The same user ID and password must be used that was initially used to log into the D6200. User names and passwords are not case sensitive.

- 3. If the correct name and password are entered, the User Management window pops up and displays all user names and passwords.
- 4. *Figure* 7 appears where users can be added, edited, or deleted.

Master User (6200) access rights cannot be edited, nor can the master user be deleted. To change the master password, use the Administration/Change Password menu.

Figure 7: Adding, Editing, or Deleting Users

- 1 Add a user: Click the Add button. Enter the user name, password, access rights, and then click the OK button.
- 2 Delete a user: Click the appropriate cell, then click the Delete button.
- 3 Edit a user name, password or access rights: Click the appropriate cell, then click the Modify button. This allows the user to modify the current value. Make the appropriate changes, then click the OK button.
- 4 Click the Restore button to restore the previously saved user configurations.
- 5 Click the Close button and the changes are automatically saved.

Access Rights

Users of the D6200 Programming Software may be granted access rights to varying D6200 menu options. When adding or editing users from the User Management window, select access rights from one of four categories shown in *Table 4*.

If no access rights are designated, the user access rights default to Read/Off Line Modification.

Table 4: Access Rights to the D6200 Menu Options					
Level	Access Rights	Description			
1	All	Users can access all the D6200 menu options.			
2	All Except User Management	Users can access all the D6200 menu options except user management.			
3	Read/Off Line Modification	Users can read configurations from the D6600 and modify parameters but cannot program the D6600.			
4	User Defined	Users can select or remove any of the menu options by double clicking on the menu title listed. A check mark indicates the user was granted access to the item. No check mark indicates the user was denied access to that option.			

Bosch Security Systems | 4/04 | 4998154991B

Save and Restore User Management Files

Once the user configurations are established, click the Close button. This saves user configurations into a hidden file, which can be useful for updating all user configurations when performing D6200 upgrades. After a new version of the D6200 is installed, click the Restore button. The previously saved user configurations are now loaded into the new D6200.

4.5.2 Changing User Password

The currently logged in user can change his/her password at anytime. To do so, follow the steps below.

1. Select Administration \rightarrow Change Password.

2. A Password Check window will appear. Enter the User ID and Password.

Password Check	
Enter user ID:	<u> </u>
Enter password:	
<u></u> к	<u>I</u> <u>C</u> lose

If the name and password entered are inconsistent with the currently logged in user, an error message will occur and the operation will be canceled.

3. If the correct name and password have been entered, a Change Password window will pop up. Enter the new password twice for verification.

Change Password	
User information	
Name: 6200	Last login date: 04-17-2003
Password: ****	Last login time: 09:38:43
Enter new password:	
Retype password:	

4. Click Change to accept the new password.

4.6 TeleCom Configuration

4.6.1 CPU Configuration

Opening the configuration file

This option loads the CPU configuration file that is saved on the Host PC.

 From the D6200 interface, select TeleCom → CPU Configuration Management → Open/Manage CPU Configuration from File

<u>T</u> eleCom	NetCom System Manageme	ent	: Language <u>H</u> elp	
CPU C	onfiguration Management	►	🕨 🖾 Open/Manage CPU Configuration from File 🛛 📐	
Line C	onfiguration Management	۲	• 😥 Read/Manage CPU Configuration from Receiver	
Caller	ID Database Management	+		
DNIS	Database Management	٠		A
Caller	ID/DNIS database selection			

2. A dialog box appears where the configuration file is selected.

Open Receive	er CPU/NETWORK Configuration file				? ×
Look in: 🔂	D6200 💌	+ 🖻	I 📥		
🔊 rx2k.cpu					
🛛 🖻 default.cp	L				
Current					
1					
File name:				Oper	n
Files of type:	Receiver CPU/NETWORK Configuration	n file 💌		Canc	el

3. Select the desired configuration file and click the Open button.

4. The configuration file opens.

CPU Configuration			
2.5 COM3 Automation Configuratio	on 4	Host Programming 2.3 Line Group	4.5 Host Parameters
2.1 Change Passwords	2.2 01000	2.5 Line 61600	2.4 10301400
2.1.1 Manager Password	6600	2.1.6 Operator Password 2	1234
2.1.2 Supervisor Password 1	6601	2.1.7 Operator Password 3	1234
2.1.3 Supervisor Password 2	6602	2.1.8 Operator Password 4	1234
2.1.4 Supervisor Password 3	6603	2.1.9 Operator Password 5	1234
2.1.5 Operator Password 1	1234	2.1.10 Operator Password 6	1234
Online Help	ations to Default	Save as Send to	ReceiverClose
2.1 CHANGE PASSWORD Note: The maximum allowable passwor	d is eight numeric cha	racters.	-
2.1.1 Manager Password Default: 6600 The Manager has full access to a	II programming option	s.	
Key in the new password and pre	ess "M/E' to accept the o	change.	
[*]		1	•
Last changed: U8+07+2001 15:00:26	ite name: C:\Program Files	sj06200jderaut.cpu	

Reading the configuration file

 From the D6200 interface, select TeleCom → CPU Configuration Management → Read/Manage CPU Configuration from Receiver

Administration	TeleCom NetCom System Manageme	ent	Language Help	
	CPU Configuration Management	►	🔄 Open/Manage CPU Configuration from File	
	Line Configuration Management	►	😥 Read/Manage CPU Configuration from Receiver	
	Caller ID Database Management	×		Ν¢
	DNIS Database Management	►		
	Caller ID/DNIS database selection			

2. A communication status window appears and shows the status of the Host PC connecting to the receiver and reading the configuration file.

3. The configuration file opens.

Editing the configuration file

1. Change the individual parameters as desired.

Sending the configuration file

After modifying options from the D6200 interface you must send back to the receiver for the changes to take effect.

Sending the appropriate parameter file from the D6200 to the receiver must be done while it is open. Parameter changes will take effect immediately at the receiver. For example, after modifications have been made to the line formats, updating the line card would be appropriate.

You will be prompted to save the parameter files on the Host PC before they can be sent to the D6600. Please select an appropriate filename prior to download.

1. After modifying options from the D6200 interface, press the Send to Receiver button from within the appropriate parameter file to send it from the D6200 to the receiver.

Parameter changes will take effect immediately at the receiver.

2. A confirmation window will appear verifying if the file should be sent to the receiver

3. A communication window will appear showing the status of sending the parameter file to the receiver.

D6200 Communication Status	×
Connecting	<u>о</u> к

4. When the status bar is full, click the OK button to close the window. The parameter file is in the receiver.

4.6.2 Line Card Configuration

Opening the configuration file

This option loads the CPU configuration file that is saved on the Host PC.

 From the D6200 interface, select TeleCom → Line Configuration Management → Open/Manage Line Configuration from File

Administration	TeleCom NetCom	System Management	Langua	ge <u>H</u> elp	
	CPU Configurati	on Management 🔹 🕨			
	Line Configurati	on Management 📃 🕨	🚇 Оре	n/Manage	: Line Configuration from File
	Caller ID Databa	ise Management 🔹 🕨	😥 Rea	d/Manage	Line Configuration from Receiver
	DNIS Database	Management 🕨	Line	Card Firm	iware Setup
	Caller ID/DNIS o	latabase selection			

2. A dialog box appears where the configuration file is selected.

Open Receive	er Line Card Configuration file			? ×
🗋 Look jn: 🔂	D6200	- 🗧 🖻	💣 🎹 •	
rx2k.lnc				
default.Inc				
Current				
File name:			One	
nio <u>H</u> amo.	μ		Oper	
Files of type:	Receiver Line Card Configuration fi	le 🔻	Cano	el

- 3. Select the desired configuration file and click the Open button.
- 4. The configuration file opens.

Line Card Configu	urations		×
Line Card 1:	Line Card 2:	Line Card 3:	Line Card 4:
Line 1	C Line 5	C Line 9	C Line 13
C Line 2	🔿 Line 6	C Line 10	C Line 14
🔿 Line 3	O Line 7	O Line 11	C Line 15
C Line 4	🔿 Line 8	C Line 12	C Line 16
Line Card 5:	Line Card 6:	Line Card 7:	Line Card 8:
C Line 17	C Line 21	C Line 25	C Line 29
C Line 18	C Line 22	C Line 26	🔿 Line 30
C Line 19	C Line 23	C Line 27	🔿 Line 31
🔿 Line 20	C Line 24	C Line 28	🔿 Line 32
Select to Modify	Save <u>a</u> s	Send to Receive	r <u>C</u> lose

File name: C:\Program Files\D6200\default.Inc

Reading the configuration file

 From the D6200 interface, select TeleCom → Line Configuration Management → Read/Manage Line Configuration from Receiver

$\underline{A} dministration$	TeleCom NetCom	System Managemer	nt	Language	Help		
	CPU Configuration	on Management	۲				
	Line Configuratio	on Management	۲	🔔 Open/M	lanage	Line Configuration from File	
	Caller ID Databa	se Management	۲	😥 Read/M	anage	Line Configuration from Receiver	
	DNIS Database I	Management	۲	Line Ca	rd Firm	ware Setup	ЪĘ.
	Caller ID/DNIS d	atabase selection					

2. A communication status window appears and shows the status of the Host PC connecting to the receiver and reading the configuration file.

D6200 Communication Status	×
Connecting Connected OK [Starttime is: 13:23:56] Transfer OK [Total transfer time = 0 Min 0 Sec] Writing, Please Wait. Disconnecting Disconnected OK	<u>o</u> ĸ

3. The configuration file opens.

Line Card Configurations							
Line Card 1:	Line Card 2:	Line Card 3:	Line Card 4:				
C Line 3 C Line 4	C Line 6 C Line 7 C Line 8	C Line 10 C Line 11 C Line 12	C Line 14 C Line 15 C Line 16				
Line Card 5: C Line 17 C Line 18 C Line 19 C Line 20	Line Card 6: C Line 21 C Line 22 C Line 23 C Line 24	Line Card 7: C Line 25 C Line 26 C Line 27 C Line 28	Line Card 8: C Line 29 C Line 30 C Line 31 C Line 32				
<u>S</u> elect to Modify	Save <u>a</u> s	Send to Receive	r <u>C</u> lose				

File name: C:\Program Files\D6200\default.Inc

Editing the configuration file

1. Change the individual parameters as desired.

Sending the configuration file

After modifying options from the D6200 interface you must send back to the receiver for the changes to take effect.

Sending the appropriate parameter file from the D6200 to the receiver must be done while it is open. Parameter changes will take effect immediately at the receiver. For example, after modifications have been made to the line formats, updating the line card would be appropriate.

You will be prompted to save the parameter files on the Host PC before they can be sent to the D6600. Please select an appropriate filename prior to download. 1. After modifying options from the D6200 interface, press the Send to Receiver button from within the parameter file to send it from the D6200 to the receiver.

Parameter changes will take effect immediately at the receiver.

2. A confirmation window will appear verifying if the file should be sent to the receiver

Confirm	×
?	Are you sure to send Line Card configurations to Receiver?
	<u>Yes</u> <u>N</u> o

3. A communication window will appear showing the status of sending the parameter file to the receiver.

D6200 Communication Status	×
onnected OK (Start time is: 10.06.05) ransfer CK (Total transfer time = 0 Min 0 Sec] WingPlease Wait. Jisconnecting isconnected OK	<u>о</u> к

4. When the status bar is full, click the OK button to close the window. The parameter file is in the receiver.

4.7 NetCom Configuration

4.7.1 Network Configuration

Opening the configuration file

This option loads the CPU configuration file that is saved on the Host PC.

 From the D6200 interface, select NetCom → Network Configuration Management → Open/Manage Network Configuration from File

NetCom	System Management	Language	Help	
Netw	ork Configuration Mana	gement	Open/Manage Network Configuration from File	_ N
Netcom Account Database Management		lanagement	🔹 😥 Read/Manage Network Configuration from Receiver	, h3
Netw	ork Utilities		•	

2. A dialog box appears where the configuration file is selected.

Save Receiv	er CPU/NETWORK Configuration file	? ×
Save in: 🔁	D6200 💌 🖛 🛍 🗰 🖬 🕶	
🛄 Upgrade 🖻 default.cpu	ı	
File name:	default.cpu Sav	e
Save as type:	Receiver CPU/NETWORK Configuration file Cano	el

- 3. Select the desired configuration file and click the Open button.
- 4. The configuration file opens.

Network Configuration					
6.4 D6200 Network Connection 6.5	Network Printer	6.6 Event 3/1 or 4/1	6.7 Event 4/2 or 4/3	6.8 Global Parameters	
6.1 COM4 Network Adapter	6.2 COM1	Network Adapter	6.3 Automation Network Connection		
6.1 COM4 Network Adapter					
6.1.1 COM4 Baud Rate	9	6.1.4 COM4 Stop	Bit	1	
6.1.2 COM4 Data Bit	8	6.1.5 COM4 Net	work Adaptor	0	
6.1.3 COM4 Parity	0	6.1.6 COM4 Net	work Encryption Enable	d 0	
Online Help	Return Configur	ations to Default	Save as Send	to Receiver <u>C</u> lose	
6 NETWORK CONFIGUR	ATION			A	
6.1 COM4 Network Adapter When COM4 is used for connecting to a net Programming parameters in this section wi	work adapter, the f Il overwrite any oth	ollowing parameters sha er COM4 settings in othe	ll be programmed. r sections.		
6.1.1 COM4 Baud Rate Default: 9 Selection: 9 Election: 9				_	
rixeu value as 384000ps.				۲ ۲	
Last changed: 08-07-2001 15:00:26 File	name: C:\Program F	iles\D6200\default.cpu		li.	

Reading the configuration file

 From the D6200 interface, select NetCom → Network Configuration Management → Read/Manage Network Configuration from Receiver.

NetCom System Management Language	Help
Network Configuration Management	Open/Manage Network Configuration from File
Netcom Account Database Management	🕩 🙀 Read/Manage Network Configuration from Receiver 💦
Network Utilities	•

2. A communication status window appears and shows the status of the Host PC connecting to the receiver and reading the configuration file.

3. The configuration file opens.

CPU Configuration			
2.5 COM3 Automation Configuration	4	Host Programming	4.5 Host Parameters
2.1 Change Passwords	2.2 Global	2.3 Line Group	2.4 Reserved
2.1 Change Passwords			
2.1.1 Manager Password	6600	2.1.6 Operator Passwor	rd 2 1234
2.1.2 Supervisor Password 1	6601	2.1.7 Operator Passwor	rd 3 1234
2.1.3 Supervisor Password 2	6602	2.1.8 Operator Passwor	rd 4 1234
2.1.4 Supervisor Password 3	6603	2.1.9 Operator Passwor	rd 5 1234
2.1.5 Operator Password 1	1234	2.1.10 Operator Passwo	ord 6 1234
Return Configuration	s to Default	Save as S	end to Receiver Close
1 CHANGE PASSWORD Note: The maximum allowable password is a	eight numeric cha	aracters.	
I.1 Manager Password Default: 6600			
The Manager has full access to all pro	gramming option	ns.	
Key in the new password and press 1	NE' to accept the	change.	

Editing the configuration file

1. Change the individual parameters as desired.

Sending the configuration file

After modifying options from the D6200 interface you must send back to the receiver for the changes to take effect.

Sending the appropriate parameter file from the D6200 to the receiver must be done while it is open.

Parameter changes will take effect immediately at the receiver. For example, after modifications have been made to the line formats, updating the line card would be appropriate.

You will be prompted to save the parameter files on the Host PC before they can be sent to the D6600. Please select an appropriate filename prior to download.

2. After modifying options from the D6200 interface, press the Send to Receiver button from within the appropriate parameter file to send it from the D6200 to the receiver.

Parameter changes will take effect immediately at the receiver. For example, after modifications have been made to the line formats, updating the line card would be appropriate.

6.4 D6200 Network Connection 6. 6.1 COM4 Network Adapter	5 Network Printer 5.5 Event 3/1 or 4/1 6.2 COM1 Network Adapter	6.7 Event 4/2 or 4/3 6.8 Global Parameters 6.3 Automation Network Connection
-6.1 COM4 Network Adapte	er Send to Re	eceiver
6.1.1 COM4 Baud Ra	te 9 31.4 COM4 Sh	sp Bit
6.1.2 COM4 Data Bit	8 815 CONVIN	owork Adaptor
6.1.3 COM4 Parity	0 8.1.8 COM4 N	ark Encypton Enstred
nine Help	Beturn Configurations to Default	gave as Send to Receiver Close
NETWORK CONFIGUR COM4 Network Adapter een COM4 is used for connecting to a net gramming parameters in this section w	ATION twork adapter, the following parameters sh vill oreeventie any other COM4 settings in oth	all be programmed. er sections.
6.1.1 COM4 Band Rate Default: 9 Selection: 9 Fixed value as 38400 tps.		-

3. A confirmation window will appear verifying if the file should be sent to the receiver

4. A communication window will appear showing the status of sending the parameter file to the receiver.

D6200 Communication Status	2
Conneting	<u>0</u> K

4.8 Databases

4.8.1 Caller ID

The Caller ID Database can only be accessed through the D6200 software. Its purpose is to log all the phone numbers that come into the receiver and associate a handshake to each.

Figure 8: Caller	ID Database Management menu
TeleCom CPU Configuration Management Line Configuration Management	1
Caller ID Database Management	Open/Manage Caller ID Database Configuration from File
😽 DNIS Database Management	Read/Manage Caller ID Database Configuration from Receiver
Caller ID/DNIS database selection	

The database can be automatically created by the receiver or manually created.

The maximum capacity for this database is 16000 phone numbers. The database is created with the first 16000 phone numbers entered or received.

Handshake Optimization will utilize the caller ID information provided by the PSTN network to create a database of up to 16000 dialers. The receiver uses this Caller ID information to output the handshake required for that particular dialer first. If the dialer does not respond to the optimized handshake the receiver will output the handshakes as they are programmed for that line. The database can be edited manually or automatically, and can be downloaded/uploaded to/from the D6600 using the D6200 software. For more information on the Caller ID Database, see the *D6600 Program Entry Guide* (P/N: 4998122702).

The D6600 is capable of storing only a DNIS Database OR a Caller ID Database at one time, not both

Opening the database

 From the D6200 interface, select TeleCom → Caller ID Database Management → Open/Manage Caller ID Database Configuration from File.

TeleCom		
CPU Configuration Management	P.	
Line Configuration Management	- F	
Caller ID Database Management	•	Open/Manage Caller ID Database Configuration from File
DNIS Database Management	۰,	Read/Manage Caller ID Database Configuration from Receiver 🗟
Caller ID/DNIS database selection		

2. A dialog box appears listing database files. Select a file and, click Open to open the database file.

▼ ← €	💣 💷
	<u> </u>

3. The Caller ID Database is now displayed for viewing or editing.

Reading the database from the receiver

 From the D6200 interface, select TeleCom → Caller ID Database Management → Read/Manage Caller ID Database Configuration from Receiver.

2. A communication status window appears showing the D6200 reading the Caller ID database from the receiver with a progress bar across the bottom.

D6200 Communication Status	×
connecting	
Connected OK	
leading Receiver Caller ID database	

3. When the progress bar reaches the end, the Caller ID database automatically opens. The receiver parameters are now displayed for viewing or editing.

Saving the database with a new name

Account database files can be saved with a different file name. This must be done within the database file.

1. Click the Save As button in the database window.

2. A dialog box appears prompting for a new name.

The new name for the Caller ID Database file must begin with CID.

Sending the database

After modifying options from the D6200 interface you must send the database back to the receiver for the changes to take effect.

Sending the database file from the D6200 to the receiver must be done while it is open. Parameter changes will take effect immediately at the receiver.

1. After modifying options from the D6200 interface, press the Send to Receiver button from within the database file to send it from the D6200 to the receiver.

Parameter changes will take effect immediately at the receiver.

2. A confirmation window appears verifying that the database is to be sent to the receiver.

3. A communication status window appears showing the status of sending the database to the receiver.

4.8.2 DNIS

DNIS stands for Dialed Number Identification Service. The DNIS Database is used to identify the proper handshake and communication format based on the DNIS account number received and can only be accessed through the D6200 software.

The maximum capacity is 2000 DNIS accounts. All accounts must be manually entered using the D6200 software.

See the *D6600 Program Entry Guide* (P/N: 4998122702) for more details

Opening the database

 From the D6200 interface, select TeleCom → DNIS Database Management → Open/Manage DNIS Database Configuration from File.

leCom	•	
Line Configuration Management		
DNIS Database Management		Open/Manage DNIS Database Configuration from File
Caller ID/DNIS database selection		Read/Manage DNIS Database Configuration from Receiver

2. A dialog box appears listing database files. Select a file and, click Open to open the database file.

Open Receiv	er DNIS database file		? ×
Look in: 🧲	D6200	1	💣 🎟 -
Dnis.DB Dnis_2000 DNIS_fror DNIS_fror Dnistest.D	1.DB N_D6600.DB B		
File name:			Open
Files of type:	Receiver DNIS Database	•	Cancel

3. The receiver parameters are now displayed for viewing or editing.

DNIS Datab	ase Manag	ement						_ 🗆 🗙
DNIS					Description			
10000	01							
10000	02							
10000	03							
10000	04							
10000	05							
10000	06							
10000	07							
10000	08							
10000	03			•		D 1947	(#100	
Handshakelt	2 2300 H	Z	Five Dig	ts:	1	Hound Wait	(~100ms);	60
Handshake2:	8 ITI (D60	640 v02 & D6641)	Six Digit	s:	1	Ademco Hig	n Speed Checksum:	0
Handshake3:	2 2300 H	z	4-1 Exte	nded:	1	BFSK Extend	led	0
Handshake4:	9 Robofo	n (D6641 Only)	4-2 Exte	nded:	1	3-1 Extender	l format:	1
Handshake5:	0 No han	dshake, not acce	Seven D	igits:	2	3-1 Restore	Report in HS Format:	0
Handshake6:	9 Robofo	n (D6641 Only)	4-1 Exp	ess:	1	Extended Fo	rmat Report in HS Fo	xmat: 0
Handshake7:	7 1600H	z ScanCom (D664	1 Pulse W	ait (*10ms):	10	Tone Duratio	ın (*100ms)	10
Handshake8:	8 ITI (D6	640 v02 & D6641)	Digit Wa	it (*100ms):	17	Handshake	v/ait (×100ms)	30
		288						
Search	by: D	NIS	•	Find value	e:		<u>S</u> e	arch
Add	Co <u>p</u> y	Modify	<u>D</u> elete	List all	Set <u>F</u> ield	Sa <u>v</u> e as	Send to Receive	r <u>C</u> lose
Total: 2000	File nam	e: C:\Program Files\	06200\Dnis_	2000.DB				

Reading the database from the receiver

 From the D6200 interface, select TeleCom → DNIS Database Management → Read/Manage DNIS Database from Receiver.

2. A communication status window appears showing the D6200 reading the DNIS database from the receiver with a progress bar across the bottom.

D6200 Communication Status	×
Connecting	
Connected OK	
Reading Receiver DNIS database	
Read successful !	
Database converting	
-	

3. The DNIS Database is now displayed for viewing or editing.

DNIS Datat	base	Manage	ment						-	
DNIS	3					Description				
10000	01									
10000	02									
10000	03									
10000	04									
10000	05									
10000	06									
10000	07									
10000	08									
	5						D 19474	(#100	Г	-
Handshake I:	2	2300 Hz		Five Digi	\$.	1	Hound Wait	(~TUUMS):		50
Handshake2:	8	ITI (D664	0 v02 & D6641) Six Digits		1	Ademco Hig	h Speed Checksum:		0
Handshake3:	2	2300 Hz		4-1 Exter	ded:	1	BFSK Exten	ded	-	0
Handshake4:	9	Robofon	(D6641 Only)	4-2 Exter	ded:	1	3-1 Extende	d format:	ſ	1
Handshake5:	0	No hand	shake, not acc	er Seven D	gits:	2	3-1 Restore	Report in HS Format:	-	0
Handshake6:	9	Robofon	(D6641 Only)	4-1 Expr	958:	1	Extended Fo	rmat Report in HS Form	at:	0
Handshake7:	7	1600Hz	ScanCom (D66	41 Pulse Wa	ait (*10ms):	10	Tone Durati	on (*100ms)		10
Handshake8:	8	ITI (D664	0 v02 & D6641) Digit Wai	t (*100ms):	17	Handshake	w/ait (*100ms)	Ī	30
Search	by:	DN	s	•	Find valu	e:		<u>S</u> ear	ch	
Add		Co <u>p</u> y	<u>M</u> odify	Delete	List all	Set <u>F</u> ield	Sa <u>v</u> e as	Send to Receiver	<u>C</u> los	se
Total: 2000		File name:	C:\Program Files	\D6200\Dnis_2	:000.DB					

Saving the database with a new name

Account database files can be saved with a different file name. This must be done within the database file.

1. Click the Save As button in the database window.

2. A dialog box appears prompting for a new name.

ave Receiv	er DNIS Databas	e		<u>? ×</u>
iave in: 📛	06200		▼ ™ ™	***
n Dnis.06 Dnis 200	1DB			
DNIS_from	n_D6600.DB			
Dnistest F	P			
	0			
	0			
ile name:	Dnis_2000.DB			Save

The new name for the DNIS Database file must begin with DNIS.

Sending the database

After modifying options from the D6200 interface you must send the database back to the receiver for the changes to take effect.

Sending the database file from the D6200 to the receiver must be done while it is open. Parameter changes will take effect immediately at the receiver.

1. After modifying options from the D6200 interface, press the Send to Receiver button from within the database file to send it from the D6200 to the receiver.

Parameter changes will take effect immediately at the receiver.

2. A confirmation window appears verifying that the database is to be sent to the receiver.

Confirm	X
?	Are you sure to send DNIS configurations to Receiver?
	Yes <u>N</u> o

3. A communication status window appears showing the status of sending the database to the receiver.

4.8.3 NetCom Accounts

Before the D6600 can begin to supervise control panels connected to the network via Bosch Security Systems D9133s or C900s, the D6600 Account Database must be programmed to include information about each NetCom account*. The programming of field accounts is stored within the D6600 in a file called the Account Database File. This file holds all of the necessary information the D6600 needs to process signals and manage/supervise field accounts.

* Account databases are either ALL NNC (NetCom Naming Convention) or ALL Static IP Addresses. Be sure to enable or disable NNC accordingly prior to opening and editing any account database. All account database configurations will be lost in the D6600 when the D6600 is rebooted. Be sure to save all database configuration changes to the "ACTXX.DB" (where xx = file name string) file with the D6200. The database must then be reloaded into the D6600 after the D6600 has been rebooted.

NetCom Account databases are maintained in both the D6600 Receiver and the D6200 Programming Software in one of two possible modes, either NNC mode, or Static IP mode.

NetCom Naming Convention (NNC)

NNC mode is enabled in the D6600 by setting Global Parameter 6.8.5 NNC Enable to 1 (0 = NNC disabled, 1 = NNC Enabled).

Figure 10: NNC Enable in D6600 menu	
6.8.5 NNC Enable Current setting [0]	
Current setting [0] New Value [01]: <u>1</u>	

The 9000 Series control panels are capable of a 10-digit account number, but the receiver will only identify the last 8 digits of the account number. For example, if the account number in the control panel is 1234567890, the account number (NNC number) in the database will have to be 34567890.

If running in NNC mode, it is recommended that all account numbers be kept to 8 digits or less.

The D6200 must also have NNC enabled (checked) in the NetCom \rightarrow Netcom Database Management \rightarrow NNC Configuration selection (see *Figure 11*).

Figure 11: NNC enabled checkbox
ng Soltware (Current Operatori6200)
NetCom Naming Convention(NNC) Configuration NetCom Naming Convention(NNC) Configuration for D6200 Account Database NetCom Naming Convention(NNC) enabled
This only for D6200 local account database, D6600 NNC mode is controlled by parameter "6.8.5 NetCom Naming Convention Enable".

The account database structure within the D6200 Programming software will support NNC Number rather than Static IP Address.

If the NetCom system operates with both static IP addresses and dynamic IP addresses (NNC) the account database must run in NNC mode and all field devices must be able to support NNC. The C900TTL-E must be running version 1.10 or greater and the 9000 Series control panel must be running version 6.30 or greater.

NNC mode references all accounts by either:

- AREA 1 account code sent from the control panel - when using a D9133TTL-E, DX4020
- Serial number of the C900TTL-E (version 1.10 or greater) dialer capture module.

Opening the database file

 After determining what type of network you will be hosting and then setting the appropriate menu options, select NetCom → Netcom Account Database Management → Open/Manage Netcom Account Database Configuration from File from the D6200 menus.

2. If this is a new database, select ACT00 from the file selections and open it.

Open Receiv	er Account database file				? ×
Look in: 🔁	D6200	•	•	📸 🏧	
Act00.DB					
File name:	ACTOO			Oper	n
Files of type:	Receiver Account Database		•	Canc	el //

3. The database file opens.

Reading the database from the receiver

 From the D6200 interface, select NetCom → NetCom Account Database Management → Read/Manage Netcom Account Database Configuration from Receiver.

2. A communication status window appears showing the D6200 reading the DNIS database from the receiver with a progress bar across the bottom.

3. The NetCom Account Database is now displayed for viewing or editing.

Editing the database file

The following screen captures illustrate all the options available in the account database using static IP addresses. If NNC is enabled, all options will remain the same except that IP Address fields will be replaced by NNC Number fields.

Figure 12: NetCom Account Database Configuration
1 Account Database Configuration 1 Search by Key field Search by: Account Name Go Mual account: Virtual line: Enable: Panel poll rate: Seconds Search by IP address: 0.0.0.0 Go View resynchronized accounts log
Q900 Command Resync All Accounts Save as Send to Receiver Exit IP Address Virtual Account Virtual Line Enable Poll Rate Ack Wait ReSynchronization Status 1ar 1.2.3.4 0123456789 0 1 75 15 1 0 5 1 0 1 75 15 1 0 1
Add Copy Import Edit Delete List all Total: 1 No key installed File name: C:\Program Files\D6200\ActExample.DB ////////////////////////////////////

- 1 **Search by Key field** Allows account searching by key field. (See Search by key field in section entitle "Search for an Account.")
- 2 Search by IP Address (or NNC number) Allows account searching by IP Address or NNC number. (See Search by NNC Number/IP Address in section entitle "Search for an Account.").
- 3 **Search by combined options** Allows account searching by Virtual Account Number, Virtual Line, Panel Poll Rate or Communication Enabled/Disabled. (See Search by combined options in section entitled "Search for an Account.").
- *Database file options* These options affect the database file as a whole.
 C900 Command see Section 4.8.5 C900 Commands.
 Resync All Accounts
 Save as see Section 4.8.3 NetCom Accounts, Saving the database with a new name Send to Receiver see Section 4.8.3 NetCom Accounts, Sending the database.
- 5 **Account listing** A listing of all accounts in the currently open database
- 6 Account options These options affect the individual accounts in the database. Add - see Section 4.8.3 NetCom Accounts, Add/Edit an Account Copy - see Section 4.8.3 NetCom Accounts, Copy an Account Import - See Section 0.1.3 Import an Account Edit - see Section 4.8.3 NetCom Accounts, Add/Edit an Account Delete - see Section 4.8.3 NetCom Accounts, Delete an Account

Add/Edit Account

Once the database is open, select each individual account by clicking and highlighting, then pressing the Edit button. Or, you can press the Add button to add a new account to the database.

Each account must have a unique static IP address or NNC Number - duplicates are not allowed. If an account is entered that already exists (when attempting to Add), the D6200 will display an error message that the IP Address/NNC Number already exists.

Press the Add button (see #6, *Figure 12*) for each new account and proceed to configure each account as necessary.

Area One Account Number in the 9000 Series control panel cannot be more than 8 digits when operating in NNC mode.

All field devices on a single network must operate on static IP addresses OR NNC mode. IP address identification AND Area one account/serial number identification cannot exist in the same database. However, statically assigned NIMs can be identified by the Area 1 Account Number or Serial Number, allowing static devices to be supervised from a NNC database.

Each account listing has 3 tabs of data options. Select the tab at the top of each screen to view or modify.

Add Account				
Account	Settings	Notes	1	
Account	Name:			

Account

Be sure to select the appropriate Net Device type on the ACCOUNT screen.

Also enter all other pertinent data on this screen (optional).

Settings Tab

Figure 13: Settings Tab	
Add Account 1 Account 2 P Address: 3 MAC Address:	
Virtual Account :	Virtual Receiver:
Enable Communication : Yes	Time Sync:
5 Virtual Line: 0 - Poll Rate Panel Poll: 75 - Secon	Priority Level : 0 - ds Ack Wait: 15 - Seconds 10
Redirect Automation	Backup Automation
IP Address: 000 000 000 000 Port Number: 0	IP Address: 000 000 000 000 000
Anti-Substitution Options	
ReSynchronization: Yes 💌	Static Key: AD10
Connection Status Status:	Changed Time:
<u>Q</u> K	Close
1 - IP Address/NNC Number	6- Poll Rate

- 2 MAC Address
- 3 Virtual Account
- 4 Enable Communications
- 5 Virtual Line

- 7 Anti-Substitution (Resynchronization)
- 8 Virtual Receiver
- 9 Time Sync
- 10 Ack Wait

IP Address/NNC Number (see #1, Figure 13)

For a STATIC account, enter the IP Address of each NIM in the database on the SETTINGS screen for each account (IP Address field)

For a NNC account, enter either the SERIAL NUMBER (C900TTL) or the AREA 1 ACCOUNT CODE (D9133TTL).

NNC Number: (Unit's Serial Number)	01020304

MAC Address (see #2, Figure 13)

This 6-byte (12-digit) length address is hard-coded into the device (either a C900TTL-E, D9133TTL-E, or DX4020) and is used to identify the device on the network. Please refer to the NIM's Installation Guide for information on finding the MAC address.

Virtual Account (see #3, Figure 13)

Enter the account number of the control panel as it is to be identified in the automation system.

Virtual Account : 1123

|--|

The number of digits entered for the Virtual Account number must match the number of digits in the dialer account number

A Virtual Account number is used to identify which control panel has lost its network connection when an "Communication Failure" message appears. If "Virtual Account Replacement is disabled (see Section 6.8.4 Virtual Account Replacement in the <i>D6600</i> <i>Program Entry Guide</i> (P/N: 4998122702). The default message "ACT0000 Communication Failure" will appear. If this is the case, the only way to identify which control panel has lost its network connection is to load the NetCom database from the D6600 into the D6200 and view the individual
account states.

Enable Communications (see #4, Figure 13)

Enables or disabled communication between the NetCom control panel and D6600.

Enable Communication : Yes

Enter the line number from 0 to 34 only if it is used by the automation system in combination with the alarm control panel account number in identifying the control panel/account. If the line number is not used, enter 0.

Virtual Line:

Poll Rate (see #6, Figure 13)

Poll Rate should be set to match the account's (control panel or C900) Poll Rate.

Entering a value via the D6600 keypad that is not a multiple of five will result in that value being rounded down to the nearest value. Ex: if 91 seconds is entered, the value is rounded down to 90 sec

This value (in multiples of 5 seconds) determines the time the receiver expects a poll from the control panel. The D6600 will report an Off Normal status after a missed poll plus programmed Ack Wait Time (see Ack Wait). It is recommended that poll rates remain consistent for all control panels within the same network.

The receiver can monitor a polling range from 0 to 1275 seconds The 9000 Series control panel can send a range of polls from 0 to 65,535 seconds. Please program the 9000 control panel poll rate within the receivers capabilities (0 to 1275 seconds).

The C900's poll rate ranges from 0 to 255 seconds using the C900 control commands from the D6200 software or has poll selection of 30 or 240 seconds depending on the DIP switch position on the board. Any C900 Control Command sent from the D6200 software to the receiver, which in turn sends to the selected C900 device, will supercede any DIP switch settings. if the C900 is rebooted, the DIP switch settings will then take affect.

Please insure that the control panel's programmed poll rate and the poll rate entered into the NetCom database are the same or as close as possible.

C900 v1.10 or greater has a 75 seconds default poll rate when DIP Switch 7 is in the OFF position.

Anti-Substitution (Resynchroization) (see #7, *Figure* 13)

ReSynchronization must be set to YES if employing Anti-substitution/Anti Replay protection. Please see Section 3.16 Understanding Panel Substitution & Replay "Hacking" Attacks and Section 3.17 Implementation of the Anti-Substitution Protection System for most information.

Anti-Substitution Options		
ReSynchronization:	Yes	•

Yes - Receiver will issue a new static key* to this account the next time it communicates with the control panel.

No - Receiver will not issue a new static key*, the control panel must use the key it received from the first communication it had with the receiver. If this key is incorrect, the communication will cause an alarm.

* Static keys are issued by the receiver to all new accounts. If the panel side supports this 'key', the communication becomes more secure because substitution and replay will be ruled out.

Virtual Receiver (see #8, Figure 13)

Since the D6600 can handle multiple PSTN lines, each account must have a different receiver number.

Virtual Receiver:

0 - The D6600 will use a common receiver number programmed in Receiver/Gateway Prompt in the D6600 (Menu Item 2.2.30).

01 to 99 - The D6600 will use this number for sending information from the NetCom Account to the automation software.

Time Sync (see #9, Figure 13)

If the account is a D9133TTI-E connected to a 9000 Series Control Panel running software version 6.3 or greater, the receiver can sync the control panel's time with the receiver's time if this section equals "1." If "0" is selected, the times will not be synced.

Ack Wait (see #10, Figure 13)

The time (in seconds) that the D6600 will wait after the poll rate interval expires for an ACK message from the NetCom control panel.

Notes tab

This screen is useful for logging information unique to each account.

Account	Settings	Notes]		
	Notes				
		<u>0</u> K		<u>C</u> lose	
					1

Copy a Account

This command can only be accomplished using the D6200 Programming Software.

To copy an account, do the following:

- 1. At the Account Database Configuration window, click on the account to be copied in the list of accounts.
- 2. Click the Copy button.
- 3. The Account tab will automatically appear with the title "Copied Account from ..."

Copied Ac	count from	1.2.3.4	
Account	Settings	Notes	1
Account	Name:		

- 4. Any Account information from the copied account is transferred to the copy with only the IP Address/NNC number left blank.
- 5. Select the Settings tab.
- 6. Enter an IP address (or NNC number, if NNC is enabled) for this new account.
- 7. Click Ok when finished.

Import an Account

This command can only be accomplished using the D6200 Programming Software.

To import an account from another database, do the following:

- 1. At the Account Database Configuration window, click on the account to be copied in the list of accounts.
- 2. At the Account Database Configuration window, click the Import button.

3. The Open D6600 Account database file window appears.

Open D6600 Accou	nt database file	?×
Look in: 🔂 D6200	▼ 🖶 🖆 🖬 -	
ACT_from_D6600. Act00.DB Act3200.DB	DB	
File name: ACTO		n
Files of type: D6600) Account Database 💽 Canc	el

- 4. Select the database where the source account to be copied is residing and open it.
- 5. Another window appears prompting you to selected the accounts to copy.

44 45 45 46 46 47 48 48 49 50 50 51 52 50 52 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 55 50 50	1123 8888 1432 7777 1688 6363 9999	0 0 0 0 0 0	1 1 1 1 1 1 1	30 30 30 30 30 30 30
45 46 47 48 49 50 51 50	8888 1432 7777 1688 6363 9999	0 0 0 0 0	1 1 1 1 1	30 30 30 30 30 30
46 47 48 49 50 51	1432 7777 1688 6363 9999	0 0 0 0	1 1 1 1	30 30 30 30
47 48 49 50 51	7777 1688 6363 9999	0 0 0 0 0 0	1 1 1	30 30 30
48 49 50 51	1688 6363 9999	0 0 0	1	30 30
49 50 51	6363 9999	0	1	30
50 51	9999	0	4	
51	EEEE			30
50	0000	0	1	30
32	2322	0	1	30
53		0	1	30
55	8888	0	1	30
56	1432	0	1	30
57	7777	0	1	30
58	1688	0	1	30
59	6363	0	1	30
60	9999	0	1	30
	55 56 57 58 59 60	55 8868 56 1432 57 7777 58 1688 59 6363 60 9999	55 8868 0 56 1432 0 57 7777 0 58 1668 0 59 6363 0 60 9999 0	55 8888 0 1 56 1432 0 1 57 7777 0 1 58 1688 0 1 59 6363 0 1 60 9999 0 1

- 6. Click the Copy button to begin the copying process.
- 7. When the copying is finished, a window will appear reporting the successful status of the copy or any problems.

moniau	
٩	0 of 1 total selected account(s) have been copied. The rest 1 account(s) have not been copied because their account number(s) have already existed in the current database.
	DK

Click OK

Duplicate account numbers will not be imported.

8. Click Close to exit back to the Account Database Configuration window.

Delete a Account

Deletes the designated IP or Area 1 (if NNC is enabled) account from the database.

- 1. At the Account Database Configuration window, click on the account to be deleted in the list of accounts.
- 2. Click the Delete button.

3. A window appears asking for confirmation.

Informatio	on		×
•	Delect s	elected accou	nt?
	es 📄	<u>N</u> o	

Click Yes.

4. The account is deleted and disappears from the list of accounts.

Saving the database with a new name

Account database files can be saved with a different file name. This must be done within the database file.

1. Click the Save As button in the database window.

Account Database Configuration	
Search by Key field	Search by combined options
Search by: Account Name	Virtual account:
Find value:	Virtual line: Enable:
Search by IP address	Panel poll rate: Seconds Search
IP address: U .U .U .U .Gg	∑iew resynchronized accounts log
©900 Command Resync All Accounts Sava	e as Send to Receiver Exit
IP Address Virtual Account Virtual Line Enable Poll	Rate Ack Wait ReSynchronization Status har
1.2.3.4 0123456789 0 1 7	5 15 1 0
<u>S</u> ave as	
	Þ
Add Copy Import	Edit Delete List all
Total: 1 No key installed File name: C:\Program Files\D62	200\ActExample.DB

2. A dialog box appears prompting for a new name.

Receiver Net	Com Account Aatabase		?
Save in: 🔁	D6200) 💣 🎫
ACT_from_ ACT_from_ Act00.DB Act3200.D	D6600() DB D6600.DB B		
File name:	Act3200.DB		Save
Save as type:	Receiver NetCom Account [Database 💌	Cancel

3. Type in the new name and click Save.

The new name for the DNIS Database file must begin with DNIS.

Sending the database

After modifying options from the D6200 interface you must send the database back to the receiver for the changes to take effect.

Sending the database file from the D6200 to the receiver must be done while it is open. Parameter changes will take effect immediately at the receiver.

1. After modifying options from the D6200 interface, press the Send to Receiver button from within the database file to send it from the D6200 to the receiver.

Parameter changes will take effect immediately at the receiver.

Account Database	Configuration					_ 🗆 ×
Search by Key f Search by: Find value:	ield Account Name	• <u>©</u> 0	-Searc Virtua Virtua	ch by combine al account: al line:	d options	
Search by IP ad IP address:	dress 0.0.0.0	Gg	Pane	i poli rate. 	Search chronized accounts log	
<u>C</u> 900 Command	Resync All Acco	unts <u>S</u>	ave as	Se	nd to Receiver	Exit
IP Address	Virtual Account Virtua	I Line Enable P	oll Rate	Ack Wait	ReSynchronization	Status har
Sen	d to Receiver					Þ
Add	Copy	Import	Edit		Delete	Listali
No P	key installed File	name: C:(Program Hiles)L	J6200(ActEx	ampie.us		//.

2. A confirmation window appears verifying that the database is to be sent to the receiver.

3. A communication status window appears showing the status of sending the database to the receiver.

Connecting	
Connected OK	
Transferring Dnis 2000.DB file to Receiver.	
[Size of Dnis_2000.DB in bytes:74000]	
IStart time is: 11:43:211	
Transfer OK	
ITotal transfer time = 0 Min 25 Sec 1	<u>o</u> k
Updating Please Wait	
Disconnecting	
Disconnected OK	

4.8.4 Searching for account

There are three options available in the D6200 Programming Software in searching for an account.

- Search by key field •
- Search by NNC Number (if enabled) or by IP • Address
- Search by combined options

Search by key field

Any of the account fields can be used to search for a particular text string.

Figure 15: Search by Key field

_Search by Key	field	
Search by:	Account Name	
Find value:		

In the "Search by:" the fields available in the drop down list for searching are:

- Account Name
- Administrator
- Virtual Account
- Control panel Type
- Control panel Communication Format
- Zip
- Phone Number
- Fax Number
- Contact 1

- Contact 1 Telephone
- Contact 2
- **Contact 2 Telephone** •
- Contact 3
 - Contact 3 Telephone
- Contact 4
- **Contact 4 Telephone**

Contact 5 Telephone

- Time Sync •

Contact 5

Resynchronization

The "Find value:" field is used to enter a specific text string.

•

•

When ready to search, press the GO button

Search by NNC Number/IP Address

A specific NNC number or an IP Address can be used as the criteria for finding a account.

The search box either will be by NNC number or IP Address depending on if NNC Enabled checkbox was checked (see Figure 11).

Enter the NNC number or IP Address and click the GO button to initiate the search.

Search by combined options

A combination of Virtual account, Virtual line, Enable and Control panel poll rate search options can be used here to find an account.

The View resynchronized accounts log button allows the user to view a record of when accounts in the D6200 and the receiver were last synchronized (see Anti-Substitution (Resynchronization)).

4.8.5 C900 Commands

The D6200 is capable of sending commands to C900TTL-E modules that are enabled and active on a NetCom network.

These commands are accessed from inside an open NetCom Account Database and fall into two categories,

- Dialer Status
- Transmission rate

Sending these commands is a four step process.

- 1. Select specific C900 module.
- 2. Select command to be sent.
- 3. Press the CHANGE button (queues the command).
- 4. Upon acknowledgement from the C900 following a poll, the command will be implemented.

The numbers in parentheses refer to the numbered callouts in Figure 30.

1 - A C900 IP Address or NNC Account must be selected from the Select C900 drop down menu

- 2 Select button
- 3 Indication of the commands being sent
- 4 C900 Dialer Status
- 5 Change button
- 6 C900 Message Transmission Rate parameters
- 7 Set defaults

A C900 IP Address or NNC Account must be selected from the Select C900 drop down menu by pressing the Select button.

Once a C900 has been selected, the C900 Dialer Status and C900 Message Transmission Rate parameters can be modified. After selections have been made, the Change button must be pressed for the commands to be sent to the C900. Indication of the commands being sent is the taskbar slowly advancing.

C900TTL-E commands are delivered to the module only after the C900 sends its poll to the receiver, so once a command is queued and if the module's poll rate is set for 30 seconds, it may take up to 30 seconds for the command to be delivered to the module. Once the ACK from the C900 is displayed in the History Log window, then that module will operate accordingly based on the command sent.

- 8 Change button
- 9 Query selected C900
- 10 Explain C900 Status button
- 11 Font
- 12 Save as button
- 13 History Log screen
- 14 Clear History

If more than 1 command is queued for a specific module within a single poll period, the C900 will only recognize the last queued command, all other commands will be ignored by the C900.

Any C900 Dialer Status or C900 Transmission Rate changes that are sent to a C900 will be lost in that C900's memory, and the C900 will revert to its default DIP switch settings if that C900 reboots or power is lost. These Dialer Status or Transmission Rate changes must be re-sent following a C900 reboot in order for the C900 to resume operation based on these changes. The Poll Rate listed under the C900 Transmission Rate is effectively the poll rate that the C900 will use if it is sent to a C900TTL-E. This command will override the DIP switch poll rate setting. If this setting is changed, the Account Database Poll Rate must also be considered to track this modified C900 polling rate in order to maintain polling synchronization. Generally speaking, it will not be necessary for a user to make changes to a C900's Transmission Rate parameters... default settings will provide for reliable network communications in most cases.

All C900 Control activity is displayed on the History Log screen, including commands sent, ACKs from the receiver to sent change commands, and status inquires. This screen is also useful for retaining a record of C900 control programming.

Any Message Transmission Rate or Dialer Status changes that have been sent to a C900 will be lost if that C900 is rebooted or loses power. These changes must be re-sent to the C900 after reboot if operation previous to the reboot is desired. For this reason, it is strongly recommended that you SAVE the History Log after sending commands to any C900.

Pressing the Save as button at the bottom of the History Log will save all lines currently displayed in the history log window as a text file in the D6200 folder. The user will be prompted for a filename. This file can later be opened using any text editor if it becomes necessary to resend these changes. These changes must be resent manually.

Changing C900 Transmission Settings & Retrieving C900 Status

All commands and related C900 status changes will be recorded on the printer and sent to the automation software. Other C900 status messages such as Low Battery, Reboot, and Dialer Diagnostic are also sent to the D6600 where they are processed and sent to the automation computer and the printer.

To send C900 Control Commands,

 Select NetCom → NetCom Account Database Configuration → Read/Manage NetCom Account Database Configuration from Receiver.

Network Configuration Management	Dpen/Manage Network Configuration from File
Netcom Account Database Management	Read/Manage Network Configuration from Receiver
Network Utilities	

2. A communication status window appears and NetCom Account Database is read from the receiver.

Once the transfer is finished, click OK.

3. Once the account database is open, choose the account where C900 commands are being sent to.

IP Address Virtual Account Virtual Line Enable Poll Rate Ack Wait ReSynchronization Status har

- 4. Click the C900 Command button.
- 5. To view all C900 accounts, click the List Online C900 button. This will show all online accounts.
- 6. In the C900 Control Commands window (see *Figure 18*), click the Select button (#2) to choose a C900 account.
- 7. All C900 accounts that are online (Status=1) will appear in this window (see Figure 19).

The status of a C900 may have changed since the last time the Account database was read from the D6600 so for an accurate C900 Account status, read the Account database from the D6600 before making any C900 changes.

C900 Status must be1 to send a command to that C900.

8. In the Online C900 Accounts List window select the C900 account that will receive the commands and click the Select button.

- 9. Select the command that will be transmitted to the C900 (see *Table 5*). Click the change button, this message will be transmitted to the D6600 and then retransmitted to the C900 upon the next poll the D6600 receives from that selected C900. All of these status changes are recorded in the D6200 History Log file.
- To query the status of an active C900, click the Query selected C900 status button (see #9, *Figure 18*). The real status of the queried C900 will be displayed in the History Log upon the next poll the D6600 receives from that selected C900.

09-17-2002 13:43:42	172.30.1.15	Query C900 status
09-17-2002 13:44:00	172.30.1.15	C900 Status is [58]: Intercept

11. Click the Explain C900 Status button (see #10, *Figure 18*) to get a more detailed explanation.

Informati	on X
٩	C900 172.30.1.15status(58): Intercept; Input open; Output active;

C900 Command Descriptions

The following sections describe these Control Commands.

Refer to Appendix D: NetCom Messages in the *D6600 Computer Interface Manual* (P/N: 4998122703) for the description of the messages output by the D6600 for these commands.

Table 5: C900 Command Descriptions			
Command Name		Description	
Switch to Intercept	 Switch to intercept 	This command will force the C900 to work in the Intercept mode. This allows the C900 to receive the dialer signals and then send them to the D6600 NetCom through LAN/WAN.	
Switch to Fallback	 Switch to fallback 	This command will force the C900 to temporarily work in the fallback mode, so that the dialer can use the PSTN to communicate with the central stations. This feature allows the central station to remotely control the dialer for PSTN remote programming. If a C900 is switched to fallback, an optional reminder message can be created every 30 min. This will ensure that the operator is aware the C900 is in the fallback mode and may return the C900 back to the intercept mode for LAN/WAN communications. The C900 will automatically switch to Intercept after one hour of being switched to Fallback or turn to Intercept mode immediately once it has received the command Switch to Intercept.	
Disable Intercept	 Disable intercept 	This command is provided as a measure to remotely remove a defective C900 from service. The dialer will be connected to the PSTN until Intercept is enabled or the C900 reboots.	
Activate Output	 Activate output 	Output #4 is an open collector output that can be used for signaling various conditions by connecting to annunciating devices or directly to a control panel input. This command activates that output.	
Deactivate Output	Deactivate output	Output #4 is an open collector output that can be used for signaling various conditions by connecting to annunciating devices or directly to a control panel input. This command deactivates that output.	
Poll Rate	Poll Rate: 75 seconds	Upon reboot, the C900 will revert to the DIP switch settings for the poll rate.	
		Poll Rate must be 75 seconds for UL Fire Listed.	
		C900 v1.09 or less has a 30-second default poll rate when dip switch 7 is in the OFF position.	
		C900 v1.10 or greater has a 75-second default poll rate when dip switch 7 is in the OFF position.	
Active (C900 Acknowledgement from Dialer)	Active: 1 seconds	This command specifies the time in seconds for the C900 to receive the acknowledgment or other information from the dialer. The C900 will actively wait for the dialer to respond to the Handshake. Valid entry is 0 to 255. If 0 is entered, the default of 1 second is used.	
Retry (Elapsed Wait Time)	Retry: 5 seconds	This command specifies the time in seconds that C900 will wait for a response to a message before sending it again.	
		The C900 will retry nine times before deciding that the host has failed. Valid entry is 0 to 255. If 0 is entered, the default of 5 seconds is used. This value should be resent to the C900 after the C900 reboots.	
Hold (Before Transmitting Message)	Hokt 1 x 256 msec.	This command specifies the time, in 256 ms increments, that the C900 must wait after receiving any message before it can transmit another message. Valid entry is 0 to 255. If 0 is entered, the default of 256 ms is used.	

Save as

This option allows the currently loaded History Log to be saved with a different file name.

Clicking the Save as button will cause a dialog box to appear with the current name highlighted. Typing a new name will overwrite it. Click the Save button to save the a copy of the history log file.

Save C900 control commands history log file as
Save in: 🔄 D6200 💌 🔶 🖆 🔠 🕶
E 0 520 tx E 10 tx MacAdr tx E Debug txt CobodP tx UserBK E Orbitst H Remote txt E Local txt
File name: LOGc900 Save
Save as type: text file Cancel

4.9 Network Utilities

4.9.1 Show Accout Status

This command allows the operator to view all the accounts in the database in a summary form.

For up-to-date account status, the database must be read into the D6200 from the D6600.

The information about each account shown is:

- IP Address
- Status
- Status Changed Time
- Anti-Sub
- Poll Rate
- Virtual Account Number
- Name
- 1. Select NetCom \rightarrow Network Utilities \rightarrow Show Account Status from the D6200 menus.

 A communication status dialog box appears showing that the Receiver account database is being read. Once the status bar at the bottom reaches all the way to the right, a "Read successful !" message is displayed and then the message "Database converting..." is briefly displayed before the communication status dialog box disappears.

D6200 Communication Status	×
Connecting	
Connected OK	
Reading Receiver account database	
Read successful I	
Database converting	

3. The Show Account Status window will appear showing all the accounts in the database from the receiver.

IP Address	Status	Status Changed Time	Anti-S
2.9.16.254	0		0
2.9.68.103	0		0
2.9.68.104	0		0
2.9.68.105	0		0
2.9.68.106	0		0
2.9.68.107	0		0
2.9.68.108	0		0
2.9.68.109	0		0
2.9.68.110	0		0
2.9.68.111	0		0
1			

4.9.2 Network device setup

The Network Device Setup command allows the user to configure other network devices that are connected such as the C900TTL-E, D9133TTL-E, DX4020 and D6680.

If these automated commands don't work properly, see *Section 6.3 Telnetting, IP Assigning and Pinging (Manual)* to manually Telnet to the device, assign the IP address and ping the IP address.

 Select NetCom → Network Utilities → Network Device Setup.

- 2. This window is divided into five tabs.
 - Assign IP Address
 - Ping Device
 - Telnet to Device
 - Ouery Device Information
 - List All NetCom Devices

Assign an IP address

This tab is used to assign an IP address to a network device. Here, the user can do the following:

- select or enter an IP address from a drop-down menu of IP addresses
- select or enter a MAC address from a drop-down menu of MAC addresses
- set the IP Address once it is chosen

The bottom third of the window contains an extensive on-line help to guide the user and provide additional information

Network Device Setup Assign IP Address Ping Device IP Address to assign: MAC Address: (e g. 00-20-4A-62-00-3C) get IP Address	Figure	20: Network Device Setup – Assign IP Address
Assign IP Address in a sign a final IP Address:	N.	etwork Device Setup
IP Address to assign: Bettin Address Bettin Addre	Ass	sign IP Address Ping Device Teinet to Device Query Device Information List All NetCom Devices
Assign IP Status 1 Assigning IP Address: A This feature is used to assign a field IP address to a device based on its MAC Address (also referred to as the headware or Ethernet's address). This sequence is the headware or Chernet's address. This sequence is the sequence is t		IP Address to assign: MAC Address: (e.g. 00-20-4A-62-00-3C) get IP Address Qlose
Assigning IP Address: This feature is used to assign a fixed IP address to a device based on its MAC Address (also referred to as the hardware or Ethernetis address). This can be used to either: 1) Assign a new IP address 2) Charge the existing IP address P Address to assign fields. The IP address which you want to assign to the device, must be entered a		Assign P Status
IP Address to assign fields: I ne IP address which you want to assign to the device, must be entered a	1 A This the H 1) A: 2) C	seigning IP Address: returns is used to assign a fixed IP address to a device based on its MAC Address (also referred to as andware or Elmemet's address). This can be used to either: sign a new IP address hange the existing IP address
MAC Address field: This is the MAC address of the device, for example: 00-20-4A-14-01-18.	IP Ar integ MAC	ddress for assign heids: The IP address which you want to assign to the device, must be entered a gre between 0-255 for example: 2029 86108.11 Address field: This is the MAC address of the device, for example: 00-20-4A-14-01-18.

Ping Device

This tab is used to PING the IP address of the network device. Here, the user can do the following:

- enter an IP address or select from a drop-down menu of IP addresses
- enter a timeout interval in mss
- ping the device to verify communication

The bottom third of the window contains an extensive on-line help to guide the user and provide additional information.

Telnet to Device

This tab is used to telnet to the network device. Here, the user can do the following:

- enter an IP address or select from a drop-down menu of IP addresses
- enter port number or select from a drop-down menu of port numbers
- initiate a telnet session to communicate with the device

The bottom third of the window contains an on-line help to guide the user and provide additional information.

For more information, see the following installation guides:

- C900TTL-E: C900TTL-E Installation Guide (P/N: 4998122718)
- D9133TTL-E: D9133TTL-E Installation Guide (P/N: 4998122717)
- DX4020: DX4020 Installation Guide (P/N: 49522)

Anning ID Address Disc Device	Teleptite Device Lower Device Information List #United and Devices L
kssign in Address Fing Device	Temerco Device Query Device Information List All NetCom Devices
	Enter IP Address :
	Port assa
	Telnet Netmask tool Close
Telnet to device	
his feature is used to open a Teli	net session to the device intended primarily to configure certain
parameters in the device over the	network.
parameters in the device over the	network.
parameters in the device over the P Address fields The IP address 255,for example: 202.96.168.11	network. of the device you want to connect, must be entered a integer between 0-
parameters in the device over the : IP Address fields The IP address ; 255,for example: 202.96.168.11 Port field: The port number entere:	network. of the device you want to connect, must be entered a integer between 0- d is used to establish the Teinet connection. This field value is default to
parameters in the device over the i IP Address fields The IP address i 255,for example: 202.96.188.11 Port field: The port number enterer se 9999, which can be used to tell	network. of the device you want to connect, must be entered a integer between 0- d is used to establish the Teinet connection. This field value is default to ent to a device.
parameters in the device over the IP Address fields The IP address in 255,for example: 202,96,168,11 Port field: The port number enterere e 9999, which can be used to tell A Query Device Informati	network of the device you want to connect, must be enfered a integer between D- d is used to establish the Telnet connection. This field value is default to net to a device.
parameters in the device over the IP Address fields The IP address i 255, for example: 202.96.168.11 Port field: The port number entere e 9999, which can be used to tell 4 Query Device Informati 1 his feature is used to obtain curr	network. of the device you want to connect, must be entered a integer between 0- d a used to establish the Teinet connection. This field value is default to net to a device. Ion: Ion:
parameters in the device over the i IP Address fields The IP address 256,for example: 202.96,168,11 Oroff field: The port number enterer be 9999, which can be used to tell 4 Query Device Informati This feature is used to obtain curr address.	network. of the device you want to connect, must be entered a integer between 0- d is used to establish the Teinet connection. This field value is default to net to a device. Ion: ent firmware information from a device, as well as its assigned Ethernet
parameters in the device over the IP Address fields The IP Address 55 for example: 202.96.168.11 Port field: The port number enteres be 9999, which can be used to tell 4 Query Device Informati This feature is used to obtain curr address.	network of the device you want to connect, must be enfered a integer between 0- dis used to establish the Telnet connection. This field value is default to net to a device. Cion: ent firmware information from a device, as well as its assigned Ethernet of the device whose information you want in obtain must be entered a
parameters in the device over the IP Address fields The IP address 2550 per sample: 202 86 168 11 Port field: The port number enteres be 9999, which can be used to telt 4 Query Device Informati This feature is used to obtain curr address. P Address fields: The IP address Regret between 0-255 for example	network. of the device you want to connect, must be entered a integer between D- d is used to establish the Teinet connection. This field value is default to net to a device. ent firmware information from a device, as well as its assigned Ethernet of the device whose information you want to obtain, must be entered a e 20 29 618 81
parameters in the device over the IP Address fields The IP address S55 for example: 202 96.168.11 Partifield: The port number enteres the 9999, which can be used to be 4 Query Device Informati This feature is used to obtain curr address. P Address fields: The IP address nteger between 0.255 for exampla WAC Address, Throware Version fu	network. of the device you want to connect, must be entered a integer between 0- d is used to establish the Teinet connection. This field value is default to ent a device. Ion: ent firmware information from a device, as well as its assigned Ethernet of the device whose information you want to obtain, must be entered a e: 202.96.18.11 elds: These fields display different pieces of the firmware information
parameters in the device over the IP Address fields The IP address 526 for example: 202 86:168:11 Port fields. The port number enterere 69509, which can be used to bite 69509, which can be used to bite 4 Query Device Informati This feature is used to obtain cum address. P Address fields: The IP address fields: The IP address fields: The IP address revered from the device.	network. of the device you want to connect, must be entered a integer between 0- d is used to establish the Teinet connection. This field value is default to reit a device. ion: ent firmware information from a device, as well as its assigned Ethernet of the device whose information you want to obtain, must be entered a 2:02986184. These fields display different pieces of the firmware information
parameters in the device over the IP Address fields The IP address i S25 (per sample; 202 96.168.11 Port field: The port number enterse the 9993, which can be used to beit 4 Query Device Informati This feature is used to obtain curr address. P Address fields: The IP address finder between 0-255 for sample MAC Address, Firmware Version fi "ceived from the device.	network. of the device you want to connect, must be entered a integer between D- d is used to establish the Teinet connection. This field value is default to net to a device. Con: ent firmware information from a device, as well as its assigned Ethernet of the device whose information you want to obtain, must be entered a e 202 98:16 at e 202 98:16 at e 102 99:16 at ledds: These fields display different pieces of the firmware information ytimeout window will be popped, you can try more times.

Query Device Information

This tab is used to list all online NetCom devices in the Current LAN. The MAC address and IP address of the devices will be shown as they are detected.

After all online NetCom devices in the LAN are listed, the user can click Save to save the MAC and IP information to a text file.

4.10 System Management

The System Management menu of the D6200 enables you to do the following:

- Download Event Database This command will send all the events that have occurred in the D6600 Receiver to the PC running the D6200 software.
- Date/Time Synchronization This command will set the time and date on the receiver to the time and date the PC clock is reading.
- Firmware Version This command will cause the D6200 to connect with the receiver and retrieve all the version numbers for all the software that is running on the D6600. See *Section 4.10.3 Firmware Version*.

4.10.1 Event Database

It is possible to receive the event database from the D6600 and save it as a file to the Host PC. This is useful for troubleshooting purposes by Bosch Security Systems Technical Support.

The D6200 software must be used to download the database, it cannot be done from the D6600 keypad. To download the event database and save it to the Host PC:

 Select System Management → Download Event Database

2. A communication status window will appear showing the status of the firmware connecting to the control panel and reading the event database.

The filename and path will be also shown of where the database file has been saved.

In this example the path is C:\Program Files\D6200\ and the name of the file is D6600.04- $22-2003.13_27_01.ebf$.

The database file can only be read by Bosch Security Systems Technical Support.

- 3. Click the OK button to close the status window and return to the D6200 main screen.
- 4.10.2 Date/Time Synchronizations

4.10.3 Firmware Version

1. Select System Management \rightarrow Firmware Version.

2. This will display the CPU and Line Card software versions on your PC.

4.11 Firmware Utilities

- Manual Upgrade Wizard See below.
- Manual Remote Execute Firmware Once the files have been copied to the receiver, a command can be sent to execute the software upgrade.

4.11.1 One Button Upgrade Wizard

This feature guides the user through the installation of the firmware so that the receiver is upgraded to the latest firmware properly. It removes any misunderstanding that the customer may have with regards to the upgrading procedure.

Figure 25: One Button Firmware Upgrade Wizard (from menu)

The D6600 must be connected to Automation in order to perform a one button upgrade..

4.11.2 One Button Backup

This feature helps the user backup all the files necessary to reinstall the user configurations and databases at a later date or for them to document any changes made.

4.11.3 One Button Restore

This feature helps the user restore all the user configurations and databases back to the receiver.

4.11.4 One Button Tech Support

In an effort to further reduce the length of time a customer is with Technical Support, this button places all the files needed by Bosch Technical Support in one compressed file. By pushing this one button, all the necessary files are obtained automatically without the customer manually retrieving each file separately. The files are automatically zipped into one file that can be easily emailed to Bosch Technical Support. The only difference between this button and the One Button Backup is that the receiver's event database is included in the zip file

(Current Operator:6200)	
oystem Management	Help
Download Event Database	Л
Eirmware Version	
Firmware Utilities	Manual Upgrade Wizard
	Manual Remote Execute Firmwar
	💡 One Button Upgrade Wizard
	One Button Backup
	One Button Restore
	One Button Tech Support

4.12 Language and Help Menus

4.12.1 Language Menu

Figure 29: D6200 About window

English is the only available language at this time

4.12.2 Help Menu

Shows the help files for both the D6600 and D6200 software and the current D6200 software revision number (see *Figure 29*)

5.0 Firmware Upgrade Procedure

5.1 Performing a one-button upgrade

This feature is an automated process of automatically updating all the firmware in the receiver.

If the One-Button upgrade procedure isn't successful, follow the steps in *Section 6.2 Firmware Upgrade Procedure (Manual)* to manually complete the upgrade.

To begin, follow these steps:

1. Click the one button upgrade button in the icon bar of the D6200

2. A confirmations dialog box appears prompting you to confirm your decision to upgrade.

Click Yes to continue.

3. Another dialog box appears about automation.

Automation is required for this process, otherwise any pending events that occur will have to manually acknowledged.

Click OK to continue.

4. The One Button Upgrade Wizard starts by verifying the connection between the Host PC and the receiver.

5. Once the connection is established, the wizard will return the version numbers of what is currently installed on the receiver and what the files will be upgraded to.

Confirm	×
?	Current CPU Version: 01.01.06.02 Current loaded PSTN Version(s) in D6600: 01.01.05.08 02.00.00.51 [3 N/A] [4 N/A]
	CPU Version to be upgraded: 01.02.00.12 PSTN Version(s) to be upgraded: 01.02.00.06 02.02.00.07 20.00.01.10
	Do you want to continue?

To continue, click Yes.

6. If the CPU version has already been upgraded, the following message appears:

D6200 One Button Upgrade Wizard	
The installed CPU firmwars version current version. Dick Continue to	n has already been upgraded to the re-install.
<u>S</u> kip	<u>C</u> ontinue

There are two options, to skip upgrading the CPU firmware or continue on.

7. A prompt appears for the name of a folder where the configuration files and databases can be backed up.

D6200 One Button Upgrade Wizard	
Please input a folder name where the configuration files and databases are backet	d up into:
Receiver_ComPort_1	
ΩK	

Accept the name shown and click OK.

8. The wizard begins.

Follow the on-screen prompts.

9. When the wizard is finished, "Upgrade Successful" will appear at the top with the new version numbers of all the firmware that was upgraded.

D620	0 One Button Upgrade Wizard(¥1.10.22)	
0	Initialize D 6200 One Button Upgrade Wizard	Upgrade Successful
Ŏ	Backup configuration files and databases	CPU Version to be upgraded:
-	Backup CPU/Network configuration file	PSTS Version(s) to be ungraded:
	 Backup LNC configuration file 	01.02.00.06
	Backup NetCom database	02.02.00.07
	🔵 Backup CID/DNIS database	20.00.01.10
2	Upgrade CPU firmware Waiting for CPU to restart	CPU Version after upgrade:
ĕ	Restore CPU configuration file	01.02.00.12 PSTN Version(s) after upgrade:
	Upgrade LineCard himware	01.02.00.06
	Waiting for CPU to load LNC firmware	02.02.00.07
	Restore configuration files and databases	20.00.01.10
	 Restore LNC configuration file 	[4 N/A]
	 Restore NetCom database 	
	Restore CID/DNIS database	Upgrade successful.
•	Verify upgrade result	<u>C</u> lose <u>Close and view log</u>

10. A text file log is automatically generated showing the specifics of what the wizard upgraded.

To see the log, click on the Close and view log button.

The log opens in Windows Notepad.

5.2 Line Card Firmware Setup

The D6600's CPU firmware can support up to four different versions of Line Card firmware. Each line card has four lines and is controlled by two Digital Signal Processor (DSP) chips (each pair of lines (1 and 2 or 3 and 4) is controlled by one chip). Up to four versions of line card firmware can be loaded into the D6600 receiver's CPU card, ONLY TWO line card firmware versions will be available per line card. You must select the version you want to run from the Line Card Firmware Setup screen and then click the Accept & Program button to tell the line card to run that version of the firmware.

The Line Card Firmware Setup is only available in the D6200 Programming Software and MUST be used when the D6600 has more than one line card firmware version loaded into the CPU card. The D6200 Programming Software must be on-line with the D6600 Receiver in order to utilize this feature. See *Section 4.2 Connection settings*.

 To access the Line Card Firmware Setup, click TeleCom → Line Configuration Management → Line Card Firmware Setup.

<u>I</u> eleCom	
CPU Configuration Management	•
Line Configuration Management	🕩 👜 Open/Manage Line Configuration from File
Caller ID Database Management	1 Read/Manage Line Configuration from Receiver
DNIS Database Management	Line Card Firmware Setup
Caller ID/DNIS database selection	

2. The D6200 Programming Software will connect to the D6600 and read the available line card firmware versions that are loaded into the D6600 receiver's CPU card.

D6200 Communication Status	×
Connecting	
Connected OK	
Loading receiver Line Card enable status	
Receiver Line Card enable status read OK	
Reading receiver software version	

3. The Line Card Firmware Setup window displays all the possible lines in the D6600 receiver. Line Cards that are installed will show the version number in the Current window, those not installed display "Not installed" in the Current window.

Line Card Firmware Se	tup	×
	Current	Change to
Line Card 1 Line 1,2:	01.01.05.08	01.01.05.08 💌
Line Card 1 Line 3,4:	02.00.00.51	02.00.00.51 💌
Line Card 2 Line 5,6:	Not Installed	Not Installed 🔻
Line Card 2 Line 7,8:	Not Installed	Not Installed 💌
Line Card 3 Line 9,10:	Not Installed	Not Installed 🔻
Line Card 3 Line 11,12:	Not Installed	Not Installed 🔻
Line Card 4 Line 13,14:	Not Installed	Not Installed 🔻
Line Card 4 Line 15,16:	Not Installed	Not Installed 🔻
Line Card 5 Line 17,18:	Not Installed	Not Installed 💌
Line Card 5 Line 19,20:	Not Installed	Not Installed 💌
Line Card 6 Line 21,22:	Not Installed	Not Installed 🔻
Line Card 6 Line 23,24:	Not Installed	Not Installed 🔽
Line Card 7 Line 25,26:	Not Installed	Not Installed 💌
Line Card 7 Line 27,28:	Not Installed	Not Installed 🔻
Line Card 8 Line 29,30:	Not Installed	Not Installed 🔻
Line Card 8 Line 31,32:	Not Installed	Not Installed 🔽
Accept & Program	1	Cancel

4. To change the firmware version for a pair of lines in a line card, click on the drop-down menu in the Change to: column to display the available versions loaded into the CPU card.

You can have up to two different versions loaded in a line card (each controlling two phone lines). A maximum of four different versions can be stored in the receiver's CPU card.

 For example, to change the version number of Line Card 1 Line 3,4 from 01.01.04.41 to 02.00.00.44, click the drop down menu and select "02.00.00.44."

- 6. Click the Accept & Program button to change the firmware version.
- 7. The lines for that line card will then reset. The process may take up to 3 min. before the OK button is enabled.

Connecting Connected OK Setup receiver Line Card Software config Receiver Line Card Software setup OK	
Disconnecting Disconnected OK	2.

Click OK.

 To verify that the lines have been changed, select TeleCom → Line Configuration Management → Line Card Firmware Setup again and the Line Card Firmware Setup window will appear.

The new version will appear in the Current column for that line pair (Line Card 1 Line 3,4).

📉 Line Card Firmware Setup 🛛 🔀		
	Current	Change to
Line Card 1 Line 1,2:	01.01.05.08	01.01.05.08 💌
Line Card 1 Line 3,4:	02.00.00.51	02.00.00.51 💌

 To check the firmware version for the CPU and line card firmware, select System Management → Firmware Version.

10. The D6200 Programming Software will communicate with the D6600 Receiver and retrieve the firmware versions of all the line cards then display them in a status window.

Connecting	
Connected OK	
Pacaivar CPU Marcian :01 01 04 42	
Receiver CFO Version.01.01.04.42	
Line Card 1 L1,2 DSP Version : 01.01.04	
Line Card 1 L3,4 DSP Version : 02.00.00.51	<u> о</u> к
Line Card 2 L5,6 DSP Version : N/A	
Line Card 2 L7,8 DSP Version : N/A	
Line Card 3 L9,10 DSP Version : N/A	
Line Card 3 L11,12 DSP Version : N/A	
Line Card 4 L13,14 DSP Version : N/A	-

11. The status window also shows (in this case) that two versions of the line card firmware have been loaded into the CPU card.

D6200 Communication Status		×
Line Card 5.17,18 DSP Version: NA Line Card 5.17,28 DSP Version: NA Line Card 5.12,22 DSP Version: NA Line Card 6.12,22 DSP Version: NA Line Card 7.125,26 DSP Version: NA Line Card 7.127,28 DSP Version: NA Line Card 7.127,28 DSP Version: NA Line Card 8.129,30 DSP Version: NA Line Card 8.129,30 DSP Version: NA		<u>о</u> к
Disconnecting Disconnected OK	•	

6.0 Troubleshooting

6.1 Uninstalling the D6200 software

To uninstall the D6200 Programming software, follow these steps:

- 1. Exit out of the D6200 software.
- Click on the Start Menu and select Settings → Control Panel.
- 3. Once the Control Panel window opens, click on the "Add/Remove Programs" icon.
- 4. Find and highlight the listing for the D6200 Programming Software.

- 5. Click the Change/Remove button to uninstall the software.
- 6. A dialog box will appear prompting you to confirm removing the D6200 Programming software.

7. Click Yes to continue and follow the on-screen prompts.

6.2 Firmware Upgrade Procedure (Manual)

If the receiver software files are not of the latest revision(s), they should be upgraded. It is recommended that the user upgrade the Software within the D6600 via the D6200 Software when the system is first started up. This insures that you are using the most recent revision of Software. After that, the D6600 can be upgraded whenever upgrades are made available.

6.2.1 Upgrading the D6200

All account database configurations are lost when the D6600 is rebooted. Be sure to save all database configurations that include NetCom account database ("ACTXX.DB") and Caller ID database ("XX.DB") or DNIS database ("XX.DB") files with the D6200. These databases must be reloaded into the D6600 after the D6600 reboots

When upgrading the D6600 with the latest firmware (CPU v01.02.01, PSTN D6640 v01.02.01, PSTN D6640 v02.02.00 and D6641 v20.00.02), it is necessary to use the latest D6200 software (D6200 v01.20). After the software is extracted from the CD-ROM, it is also necessary to read the parameter files from the D6600, save them as XXXX.CPU and XXXX.LNC, install the new firmware versions, and then reload them into the D6600.It is very important that these upgrading steps are performed in the following order:

- If the ITI format needs to be supported in the D6640, the PSTN firmware (version 02.02.01) must also be loaded into the receiver.
- 2. Both the newer released versions of CPU and Line Card firmware must be upgraded to the Receiver. An older CPU firmware version will not work with a new Line Card firmware version and vice versa.
- 3. If you are installing or upgrading the D6641, the PSTN firmware should be v20.00.02.

6.2.2 Backing up the D6600 Configuration and Database Files

Receive the different configuration and Database files from the D6600 and save them as separate files on the Host PC.

CPU/Network Configuration

 Select TeleCom → CPU Configuration Management → Read/Manage CPU Configuration from Receiver.

A D6200 Communication Status window appears, a connection is established with the D6600, and the receiver's CPU/Network configuration file is sent to the D6200. Once it is done, the window automatically closes and the CPU/Network Configuration window automatically opens.

- 2. Click the Save as button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 3. Type in a new name for the configuration file ending with a .CPU extension.
- 4. Click Save to save the file.

Line Configuration

 Select TeleCom → Line Configuration Management → Read/Manage Line Configuration from Receiver.

A D6200 Communication Status window appears, a connection is established with the D6600, and the receiver's line configuration file is sent to the D6200. Once it is done, the window automatically closes and the Line Card Configuration window automatically opens.

- 2. Click the Save as button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 3. Type in a new name for the configuration file ending with a .LNC extension.
- 4. Click Save to save the file.

Caller ID Database

 Select TeleCom → Caller ID Database Management → Read/Manage Caller ID Database Configuration from Receiver.

A D6200 Communication Status window appears, a connection is established with the D6600, and the receiver's Caller ID database is sent to the D6200. Once it is done, the window automatically closes and the Caller ID Database Management window automatically opens.

- 2. Click the Save as button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 3. Type in a new name for the configuration file beginning with CID and ending with a .DB extension.
- 4. Click Save to save the file

DNIS Database

1. Select TeleCom \rightarrow Caller ID/DNIS Database.

- 2. At the Caller ID/DNIS database selection window, select Enable DNIS and disable Caller ID function and click OK to close.
- Select TeleCom → DNIS Database Management → Read/Manage DNIS Database Configuration from Receiver.

A D6200 Communication Status window appears, a connection is established with the D6600, and the receiver's DNIS database is sent to the D6200. Once it is done, the window automatically closes and the DNIS Database Management window automatically opens.

- 4. Click the Save as button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 5. Type in a new name for the configuration file beginning with DNIS and ending with a .DB extension.
- 6. Click Save to save the file.

NetCom Account Database

 Select NetCom → Netcom Account Database Management → Read/Manage Netcom Account Database Configuration from Receiver.

A D6200 Communication Status window appears, a connection is established with the D6600, and the receiver's NetCom Account database is sent to the D6200. Once it is done, the window automatically closes and the NetCom Account Database Configuration window automatically opens.

- 2. Click the Save as button to open a save dialog box to the C:\Program Files\D6200 folder on the Host PC.
- 3. Type in a new name for the configuration file beginning with ACT and ending with a .DB extension.
- 4. Click Save to save the file

6.2.3 Upgrading the CPU firmware

- Double-click the Bosch Security Systems icon located in the D6200 Programmer\Firmware CPU-D6610_01.02.00 folder on the D6600 CD-ROM
- 2. The file will unzip to the necessary location.
- Open the D6200 Programming Software and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options are displayed depending on which upgrade, (CPU, Line Card, or System Files) was unzipped.
- 4. Select the CPU option to be loaded to the D6600 and click Next.
- 5. The D6200 guides you through the rest of the installation process.

- 6. Once the receiver completely loads the CPU code (approximately four minutes to load the receiver with the new CPU software).
- It is now necessary to "Remote Execute the Firmware." by selecting System Management → Remote Execute Firmware (which will take approximately three minutes for receiver to reboot).
- In order for the Remote Execute Firmware command to execute, the Event Buffer in the D6600 Receiver must be cleared (no pending events). Otherwise it will be necessary to press the [ACKNOWLEDGE] button on the front of the receiver to clear the events out of the buffer.

6.2.4 Reloading the configuration file CPU Configuration File

- 1. After the CPU firmware upgrade and the remote execute [The receiver should be back to its idle running stage (time and date displayed on the LCD or the pending events in the buffer)], reload the CPU configuration file you saved.
- Select TeleCom → CPU Configuration Management → Open/Manage CPU Configuration.
- 3. At the Open Receiver CPU/Network Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.
- 4. Select the file name of the recently saved CPU/Network configuration file and click Open.
- 5. The CPU configuration window opens.
- 6. Click the Send to Receiver button to send the file to the receiver.
- A D6200 communication status window appears, connects to the receiver, and the saved CPU/Network configuration file is sent to the receiver.
- 8. When the transfer is done, click OK to close the window.
- 9. To verify the CPU firmware upgrade took effect, use the D6200 Programming Software to select System Management Firmware Version.
- 10. CPU v01.02.01 should be displayed.

Line Configuration File

 Select TeleCom → Line Configuration Management → Open/Manage Line Configuration.

- 2. At the Open Receiver Line Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.
- 3. Select the file name of the recently saved Line configuration file and click Open.
- 4. The Line configuration window opens.
- 5. Click the Send to Receiver button to send the file to the receiver.
- 6. A D6200 communication status window appears, connects to the receiver, and the save Line configuration file is sent to the receiver.
- 7. When the transfer is done, click OK to close the window.

Caller ID Database Configuration File

- Select TeleCom → Caller ID Database Management → Open/Manage Caller ID Database Configuration.
- 2. At the Open Receiver Caller ID Database Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.
- 3. Select the file name of the recently saved Caller ID Database configuration file and click Open.
- 4. The Caller ID Database configuration window opens.
- 5. Click the Send to Receiver button to send the file to the receiver.
- 6. A D6200 communication status window appears, connects to the receiver, and the saved Caller ID Database configuration file is sent to the receiver.
- 7. When the transfer is done, click OK to close the window.

DNIS Database Configuration File

- Select TeleCom → DNIS Database Management → Open/Manage DNIS Database Configuration.
- 2. At the Open Receiver DNIS Database Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.
- 3. Select the file name of the recently saved DNIS Database configuration file and click Open.
- 4. The DNIS Database configuration window opens.
- 5. Click the Send to Receiver button to send the file to the receiver.
- 6. A D6200 communication status window appears, connects to the receiver, and the saved DNIS Database configuration file is sent to the receiver.
- 7. When the transfer is done, click OK to close the window.

Netcom Account Database Configuration File

- Select NetCom → NetCom Account Database Management → Open/Manage Netcom Account Database Configuration.
- 2. At the Open Receiver NetCom Account Database Configuration file dialog box appears pointing to the C:\Program Files\D6200 folder on the Host PC.
- 3. Select the file name of the recently saved NetCom Account Database configuration file and click Open.
- 4. The NetCom Account Database configuration window opens.
- 5. Click the Send to Receiver button to send the file to the receiver.
- 6. A D6200 communication status window appears, connects to the receiver, and the saved NetCom Account Database configuration file is sent to the receiver.
- 7. When the transfer is done, click OK to close the window.

6.2.5 Upgrading the D6640 Line Card Firmware (v01.02.01)

- 1. Load the Line Card Firmware once the CPU firmware successfully loads.
- To upgrade the D6640 Line Card Firmware, double click the Bosch Security Systems icon located in the D6200 Programmer\Firmware\PSTN-D6640_01.02.01 folder on the D6600 CD-ROM.
- 3. This will unzip the file to the necessary location.
- Open the D6200 Programming Software, and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options are displayed depending on which e (CPU, Line Card, or System Files) was unzipped.
- 5. Check the Line Card option to be loaded to the D6600 and click Next.
- 6. The D6200 guides you through the rest of the installation process (approximately 2 minutes to load the receiver with the new Line Card Firmware).
- 7. After the Line Card upgrade, verify the Line Car Firmware upgrade took effect.
- 8. Use the D6200 Programming Software, select System Management Firmware Version.
- 9. PSTN v01.02.01 should be displayed.

Line Cards will be reset after the firmware is loaded to update them to the installed release.

6.2.6 Upgrading the D6640 Line Card Firmware (v02.02.01)

- 1. Load the D6640 PSTN firmware (v02.02.01) into the receiver, if the ITI format must be supported.
- 2. To upgrade the line card firmware, double click the Bosch Security Systems icon located in the D6200 Programmer\Firmware\PSTN-D6640_02.02.01 folder on the D6600 CD-ROM
- 3. This unzip the file to the necessary location.
- Open the D6200 Programming Software, and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options are displayed depending on which upgrade (CPU, Line Card, or System Files) is unzipped.
- 5. Check the Line Card option to load to the D6600 and click Next.
- 6. The D6200 guides you through the rest of the installation process (approximately 2 minutes to load the receiver with the new line card firmware).
- After the line card upgrade, verify the line card firmware upgrade took effect. Use the D6200 Programming Software, to select System Management Firmware Version.
- 8. PSTN v02.02.01 should be displayed.

Line Cards will be reset after the firmware is loaded to update them to the installed release.

6.2.7 Upgrading the D6641 Line Card Firmware (v20.00.02)

- 1. Load the D6641 PSTN firmware (v20.00.02) into the receiver.
- 2. To upgrade the line card firmware, double click the Bosch Security Systems icon located in the D6200 Programmer\Firmware\PSTN-D6641 20.00.02 folder on the D6600 CD-ROM
- 3. This unzip the file to the necessary location.
- Open the D6200 Programming Software, and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options are displayed depending on which upgrade (CPU, Line Card, or System Files) is unzipped.
- 5. Check the Line Card option to load to the D6600 and click Next.
- 6. The D6200 guides you through the rest of the installation process (approximately 2 minutes to load the receiver with the new line card firmware).
- After the line card upgrade, verify the line card firmware upgrade took effect. Use the D6200 Programming Software, to select System Management Firmware Version.

8. PSTN v20.00.02 should be displayed.

Line Cards will be reset after the firmware is loaded to update them to the installed release.

6.2.8 Upgrading the System Files

- 1. If the CPU firmware was upgraded from v01.01.01 or earlier, load the System Files on to the D6600.
- 2. To upgrade the System Files firmware, double click the Bosch Security Systems icon located in the D6200 Programmer\Firmware\System Files folder on the D6600 CD-ROM.
- 3. This will unzip the file to the necessary location.
- Open the D6200 Programming Software, and select System Management → Firmware Upgrade Wizard to display active and inactive options. Options are displayed depending on which upgrade (CPU, Line Card, or System Files) was unzipped.
- 5. Check the System File option to be 10aded to the D6600 and click Next (approximately 10 seconds to load the receiver with the new System Files firmware.
- 6. The D6200 guides you through the rest of the installation process.

It is very important that the receiver is turned OFF and then turned back ON for the system files to take effect! (Approximately 3 minutes for the receiver to be fully operational after it is turned ON.)

6.2.9 Upgrade complete

The firmware upgrade is now complete.

6.3 Telnetting, IP Assigning and Pinging (Manual)

Remember that the IP and MAC addresses used in this section will not be the same as the numbers you are using. This is for demonstration only

6.3.1 Initial Assignment of the IP Address using ARP

Bosch Security Systems recommends that you read this entire step before beginning. Also, make sure there is power to the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680) and the Ethernet Network RJ45 connection is in place.

The network device (C900TTL-E, D9133TTL-E, DX4020 or D6680) being configured and the PC being used to configure it, must both be on the same gateway (the device that connects the LAN to the WAN) in order to telnet (the process of using the TELNET program to communicate with the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680) and establish its communications configuration parameters) into the configuration program. After the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680) has been configured and it has an IP address - you will be able to telnet in to change configuration parameters from anywhere on the network.

Once you have the IP address and the network administrator confirms that it is ready, open up the MS-DOS[®] prompt on the host computer tied into the network that is to be used. You will now need to use the ARP program to assign the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680) its new IP address.

Address Resolution Protocol (ARP), is a program used to create a temporary association between an IP address and a hardware address, such as a MAC. The ARP program is installed into the C:\WINDOWS directory by default by Microsoft[®] Windows[®] 95, Windows 98, Windows 98SE, Windows Me, Windows 2000, Windows NT, and Windows XP, during install.

At the MS-DOS prompt (usually C:\WINDOWS or command prompt for Windows NT and 2000, usually C:\WINNT), the following command syntax is to be used:

- 1 xxx.xxx.xxx is the IP address assigned to the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680) by the Network Administrator.
- 2 zz-zz-zz-zz-zz is the MAC hardware address found on the label of the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680).

The following steps detail the assignment of an IP address to a network device (C900TTL-E, D9133TTL-E, DX4020 or D6680), using the ARP command. The following MAC address is used as an example.

ARP Command Usage

1. Open a MS-DOS window by selecting Start \rightarrow Run.

At the Run dialog box, type COMMAND and click OK.

Run	? ×
5	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	
	OK Cancel Browse

A DOS window will appear.

2. Type the ARP –s command with the IP Address and the MAC Hardware address from above.

For this example the IP address to assign is 190.220.128.219 and the MAC hardware address is:

00-20-4a-01-b5-3d

3. If following your command the computer responds with a prompt of C:\WINDOWS>, then the address was accepted.

There is no indication that the operation has been performed properly. The absence of an error message is your indication that the ARP command was successful.

4. Verify that the IP address was correctly entered into the ARP table by typing:

arp -g [ENTER]

6.3.2 Using Telnet to Finish the Configuration

If you are using Windows 95/98, see Section 6.3.3 Using Windows 95/98 Telnet.

If you are using Windows 2000/XP, see Section 6.3.4 Using Windows 2000/XP Telnet.

6.3.3 Using Windows 95/98 Telnet

- 1. Open a DOS window from the Start menu by selecting Start \rightarrow Run.
- At the Run dialog box, telnet [ENTER]. The Telnet application should now be running.
- 3. Click on the <u>Connect</u> \rightarrow <u>R</u>emote System...

The Connect window displays.

Connect			X
<u>H</u> ost Name:			•
Port:	telnet		•
<u>T</u> ermType:	vt100		•
<u>C</u> onnect		Cancel	

4. Type the IP address of the network device (this is the IP address that was assigned to the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680) in the previous section) in the Host Name field,

In this example, the IP address is 172.17.10.70. Type 1 into the Port field and leave the TermType field at vt100.

Connect		×
<u>H</u> ost Name:	172.17.10.70	•
Port:	1	•
<u>T</u> ermType:	√t100	-
Connect	Cancel	

5. Click Connect and wait a few seconds for a connect failed message to display stating: "Could not open a connection to 172.17.10.70."

Connect fai	led 🔀
8	Could not open a connection to 172.17.10.70
	ОК

Click OK to open the Telnet window again.

6. Repeat Step 3.

This time, leave everything as it is except, type 9999 into the <u>P</u>ort field. Click Connect.

Connect		×
<u>H</u> ost Name:	172.17.10.70	•
Port:	9999	•
<u>T</u> ermType:	√t100	•
<u>C</u> onnect	Cancel	

 The message "Press Enter to go into setup mode" message appears. Press [ENTER].

 Image: Second Second

T	elnet 💌	1
	Connection to host lost.	
	ОК	

8. If you pressed [ENTER] within 5 seconds of seeing the "Press Enter to go into Setup Mode" message, you should see the following screen:

- 9. To complete the telnetting, please reference the appropiate installation guide:
- C900TTL-E Installation Guide (P/N: 4998122718)
- D9133TTL-E Installation Guide (P/N: 4998122717)
- DX4020 Installation Guide (P/N: 49522)
- D6680 Network Adapter Inguide (P/N: 4998138732)

6.3.4 Using Windows 2000/XP Telnet

To finish the IP address configuration of the network device (C900TTL-E, D9133TTL-E, DX4020 or D6680), a Telnet session must be launched.

It is necessary to be logged into Windows 2000 with an Administrator privilege level.

This example uses the IP address of 172.17.10.70 and the MAC Address of 00-20-4a-72-04-0e.

- 1. Open a DOS window from the Start menu by selecting, Start \rightarrow Run.
- 2. At the Run dialog box, type COMMAND and click OK.
- 3. A command prompt window appears:

The colors have been inverted here for clarity. The normal prompt window appears with white text on black.

 At the C:\> prompt, type in telnet and press [ENTER].

🚾 Command Prompt

Microsoft Windows 2000 [Version 5.00.2195] (C) Copyright 1985-2000 Microsoft Corp.

C:\>telnet

 At the Microsoft Telnet> prompt, type open (space) IP ADRESS (space) PORT NUMBER Ex: open 172.17.10.70 1

Command Prompt-telnet Microsoft (R) Windows 2000 (TM) Version 5.00 (Build 2195) Welcome to Microsoft Telnet Client Telnet Client Build 5.00.99203.1 Escape Character is 'CTRL+1' Microsoft Telnet> open 172.17.10.70 1

 The connection fails the first time. (This is normal). At the prompt enter the same sequence but using port 9999 instead of 1. Ex: open 172.17.10.70 9999

Nicrosoft (R) Windows 2000 (TM) Version 5.00 (Build 2195) Welcome to Microsoft Telnet Client Telnet Client Build 5.00.99203.1

Escape Character is 'CTRL+]'

Nicrosoft Telnet> open 172.17.10.70 1 Connecting To 172.17.10.70 ...Could not open a connection to host on port 1 Connect failed Microsoft Telnet> open 172.17.10.70 9999

Pressing [F3] displays the last line typed, Backspace over the port and change to 9999.

- 7. Press [ENTER] and you should be in the setup menu of the network device.
- 10. To complete the telnetting, please reference the appropiate installation guide:
- C900TTL-E Installation Guide (P/N: 4998122718)
- D9133TTL-E Installation Guide (P/N: 4998122717)
- DX4020 Installation Guide (P/N: 49522)
- D6680 Network Adapter Inguide (P/N: 4998138732)

6.3.5 Pinging the IP Address

Packet Internet Groper (PING.EXE) is a utility to determine whether a specific IP address is accessible. It works by sending a packet to the specified address and waiting for a reply. PING is used primarily to troubleshoot network connections and can be used to verify if the network device has a network connection.

Under Microsoft[®] Windows[®] 95, Windows 98, Windows 2000, and Windows NT, PING.EXE is normally installed along with the networking component of Windows, but will not be installed if you have not yet installed any networking components. If it is not present, it can be extracted from the Windows Installation CAB files.

- 1. You must know the IP address of the device you are attempting to verify. Write down the IP address.
- Open a MS-DOS window by selecting Start → Run.

or

*

At the Run dialog box, type COMMAND and click OK

3. A MS-DOS® window will appear.

4. Use the PING command, followed by the IP address of the device you are attempting to verify. The correct syntax is:

ping xxx.xxx.xxx [ENTER]

"xxx.xxx.xxx" is the IP address assigned to the network device by the network administrator.

5. For example, to verify network communications with a network device that has been assigned an IP address of: 10.0.0.5 the correct syntax would be:

PING 10.0.0.5 [ENTER].

Below is an example of the display when a device is installed on the network, is functioning properly and a successful ping has occurred.

Pinging 10.0.0.5 with 32 bytes of data: Reply from 10.0.0.5: bytes=32 time=3ms ITL=32 Reply from 10.0.0.5: bytes=32 time=1ms ITL=32 Reply from 10.0.0.5: bytes=32 time=1ms ITL=32 Reply from 10.0.0.5: bytes=32 time=1ms ITL=32 Ping statistics for 10.0.0.5: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 1ms, Maximum = 3ms, Average = 1ms C:\WINDOWS>

6. See the below figure for an example of an unsuccessful ping display.

```
Pinging 10.0.0.5 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 10.0.0.5:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss)
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

If your machine is not properly configured, it may appear to be doing nothing; this is also an indicator of a failure of the PING command. You can usually terminate the PING command by pressing the Ctrl+C key combination (press and hold the [Ctrl] and press [C] once).

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Bosch Security Systems 130 Perinton Parkway Fairport, NY 14450-9199 Customer Service: (800) 289-0096 Technical Support: (888) 886-6189

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